OCTOBER 1987
QUARTERLY SAMPLING REPORT
SOUTHERN CALIFORNIA CHEMICAL
SANTA FE SPRINGS, CALIFORNIA

01-14-8+

December, 1987

Prepared by:

KLEINFELDER

17100 Pioneer Blvd. Suite 350, Artesia, California 90701

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KLEINFELDER

January 14, 1987 File: 50-1014-03

California Regional Water Quality Control Board Los Angeles Region 107 South Broadway, Room 4027 Los Angeles, California 90012-4596

Attention: Mr. Hank Yacoub

Subject: Southern California Chemical

Quarterly Sampling - October, 1987

Dear Mr. Yacoub:

Attached to this letter is our quarterly sampling report of the Southern California Chemical Co., Inc., Santa Fe Springs facility. The report presents the results of analyses of water samples and water level measurements obtained on October 9, 13, and 15, 1987 from the onsite monitoring wells. This report also contains sampling protocols used during sampling and analysis.

We trust the information presented in the report meets your needs at this time. Should you have any questions, please feel free to contact us at your convenience.

Brian Villalobos, R.G. 4153

Senior Hydrogeologist

Very truly yours,

KLEINFELDER

Kenneth L. Durand

Hydrogeologist

KLD: BV: cmg

cc: Bud Torrance

John Leo Mark Vest Jim Breitlow

1 INTRODUCTION

Presented in this report is a summary of laboratory analyses of water samples and water level measurements obtained during October 9, 13, and 15, 1987 from Southern California Chemical Co., Inc. groundwater monitoring wells. Included for comparison are the results of our previous water samplings.

Groundwater sampling began in February, 1985 to assess and mitigate a chromium and cadmium plume located in the vicinity of monitoring well MW-4 (see Plate 2). A quarterly groundwater sampling program was initiated in March of 1986. The purpose of the quarterly sampling program is to establish a data base for monitoring the compounds in the groundwater beneath the site. The most important aspects of this program are (a) assessment of location and concentration of the chromium and cadmium plume; (b) detection and evaluation of water quality changes; and (c) characterization of background water quality.

This report presents the data obtained from the seventh quarterly sampling interval conducted in October 1987 and all previous sampling data. The original laboratory reports and chain of custody records of the October 1987 sampling are included in the Appendices. The eighth quarterly sampling is scheduled for February 1988 with a report to the Regional Water Quality Control Board to follow in March 1988.



2 MONITORING WELL SAMPLING

Sampling was performed by a **KLEINFELDER** environmental technician using the Mark Series I groundwater sampling vehicle.

All wells are measured for static water level prior to sampling. The wells were purged and sampled by using an air-activated submersible pump (bladder pump). To minimize the potential for cross-contamination, the pump and sample lines were thoroughly decontaminated before sampling and between wells, as described in Appendix A.

A total of twelve monitoring wells were sampled as part of this program. Eleven of the twelve wells sample groundwater from the uppermost portion of the first aquifer beneath the site. Well MW 4A is perforated in the lowest portion of the same aquifer.

As customary, the Regional Water Quality Control Board was notified prior to sampling and was provided the opportunity to observe sampling and to collect duplicate or split samples.



3 LABORATORY TESTING

Analytical testing was performed by Brown and Caldwell Laboratories of Pasadena, California. Quality assurance testing was provided by Analytical Technologies, Inc. of San Diego, California.

Laboratory testing for the October 1987 quarterly sampling consisted of analyzing a total of about 332 water samples. The primary laboratory, Brown & Caldwell Laboratories, analyzed 312 monitoring well samples, 8 quality control samples, and 2 spiked samples. The quality assurance laboratory, Analytical Technologies, Inc., analyzed 8 split monitoring well samples, and 2 spiked samples. Spike samples were provided by Chemical Research Laboratory of Garden Grove, California.

The results of the testing are summarized and presented in Tables 1 through 12. Individual test results are included in Appendix B and Chain-of-Custody records are included in Appendix C.



4 QUALITY CONTROL

To monitor the validity of the chemical data, the following quality assurance measures were employed.

4.1 DUPLICATE SAMPLES

Duplicate samples were taken at each sampling site. This ensures that if breakage or trouble with the testing equipment occurs, there is a backup sample for testing. This also allows a provision for a recheck on results if there is an inconsistency or if confirmation of results becomes necessary.

4.2 SPLIT SAMPLE TESTING

Split samples were collected and analyzed on four of the twelve monitoring wells. Monitoring wells MW-4, MW-4A, MW-10, and MW-11 were analyzed by both laboratories. Table 13 presents the comparison of the split samples. The comparison indicates that the results of both laboratories agree favorably.

4.3 CROSS-CONTAMINATION TESTING

Quality control (QC) samples were collected to verify that cross-contamination between wells was not occurring during sampling. Samples were collected prior to sampling the first well and again between selected subsequent wells by the protocol described in Appendix A. The sequence of sampling and the compounds detected in the quality control samples are presented in Table 14. The compounds with elevated levels in the monitoring wells (ethyl benzene, Trichloroethylene, 1,1-Dichloroethane, etc.) were non-



detected at 0.5 ug/l in the quality control samples. This indicates that the monitoring well samples were not contaminated by the sampling system. The low levels of chloroform and methylene chloride detected in the quality control samples are probably related to laboratory contamination since both compounds are known laboratory contaminates.

4.4 SPIKED SAMPLE TESTING

Chemical Research Laboratories, Inc. of Garden Grove, California supplied a set of spiked samples. Samples were spiked with toluene at 194 ug/l, trichloroethylene at 74 ug/l, and ethyl benzene at 151 ug/l. Table 15 presents the percent recovery by each laboratory for these compounds. Percent recovery from the calculated concentration ranged from 59 to 113 percent which indicates an acceptable degree of accuracy.

4.5 SAMPLE CONTROL

All samples were labeled during sampling and shipped refrigerated to the laboratories. A chain-of-custody form was maintained for all samples taken. Copies of these forms are included in Appendix C.



5 GROUNDWATER LEVELS

Depth to groundwater was measured prior to sampling of each monitoring well. The October 1987 measurements and all prior measurements are presented in Table 16. The groundwater surface for October 1987, declined in elevation beneath the facility from the previous quarter. Water level decline ranged from 1.45 feet to 5.27 feet with an average of approximately 4 feet.

6 GROUNDWATER QUALITY

Hexavalent chromium exists at elevated levels in monitoring wells MW-4 and MW-9. Chromium concentrations were originally detected in MW-4 at 500 mg/l in February 1985. Subsequent concentrations have fluctuated between 61 mg/l and 550 mg/l. Currently Hexavalent chromium exist at 190 mg/l in MW-4.

Elevated levels of Hexavalent chromium also exist in MW-9. Hexavalent chromium was first detected in MW-9 at 0.12 mg/l in June 1987 and has increased to 0.84 mg/l currently.

Cadmium, was originally detected in monitoring well MW-4 at a concentration of 0.78 mg/l in February 1985. Concentrations then decreased to below the Drinking Water Standard of 0.01 mg/l. Currently analysis indicates that cadmium concentrations have increased to 0.33 mg/l. Monitoring well MW-4 is the only well onsite with detectable levels of cadmium.

The EPA 40 CFR groundwater quality indicator parameters TOC, TOX, pH and specific conductance, have remained relatively consistent with previous levels. The exception is specific conductance in Monitoring wells MW-2, MW-3 and MW-8. In MW-2 and conductance decreased from 3400 umhos/cm to 1600 umhos/cm and 2100 umhos/cm to 1300 umhos/cm respectively. concentrations also decreased in these two wells. In MW-3 conductance rose from 2200 umhos/cm to 3300 umhos/cm. There was a corresponding increase in the chloride concentration well.



Organic chemicals have not been used onsite by the Southern California Chemical Company, Inc. during production processes. However, a number of organic compounds exist in the groundwater beneath the site. Organics have been detected in wells MW-3, MW-4, MW-10, and MW-11. Monitoring Wells MW-3 and MW-11 are upgradient wells located along the northern property boundary of the site. Monitoring wells MW-10 and MW-4 are located adjacent to Pond 1, down gradient from MW-11. As discussed in previous reports, since organic compounds have not been used onsite, the suspected source for the organics is a neighboring facility.



7 LIMITATIONS

This report is based on:

- 1. The observations of our field personnel
- 2. The results of laboratory tests performed by Brown & Caldwell Laboratory and Analytical Technologies, Inc.
- 3. Measurements of groundwater elevations in the 12 monitoring wells
- 4. Referenced documents

It is possible that variations in the soil or groundwater conditions could exist beyond the points explored in this investigation. Also, changes in the groundwater conditions could occur at some time in the future due to variations in rainfall, temperature, regional water usage, or other factors. The services performed by KLEINFELDER have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the Los Angeles County area. No other warranty, expressed or implied, is made.

Respectfully submitted,

KLEINFELDER

Kenneth L. Durand

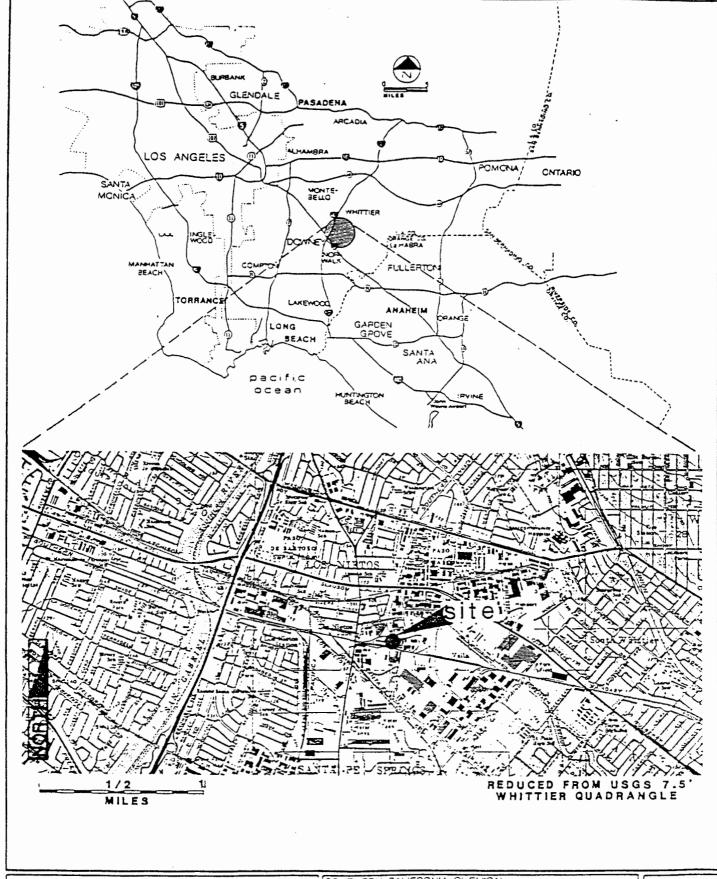
Staff Hydrogeologist

Brian Villalobos, R.G. #4153

Senior Hydrogeologist

KLD: BV: cmg

50-1014-03





SOUTHERN CALIFORNIA CHEMICAL Santa Fe Springs, California

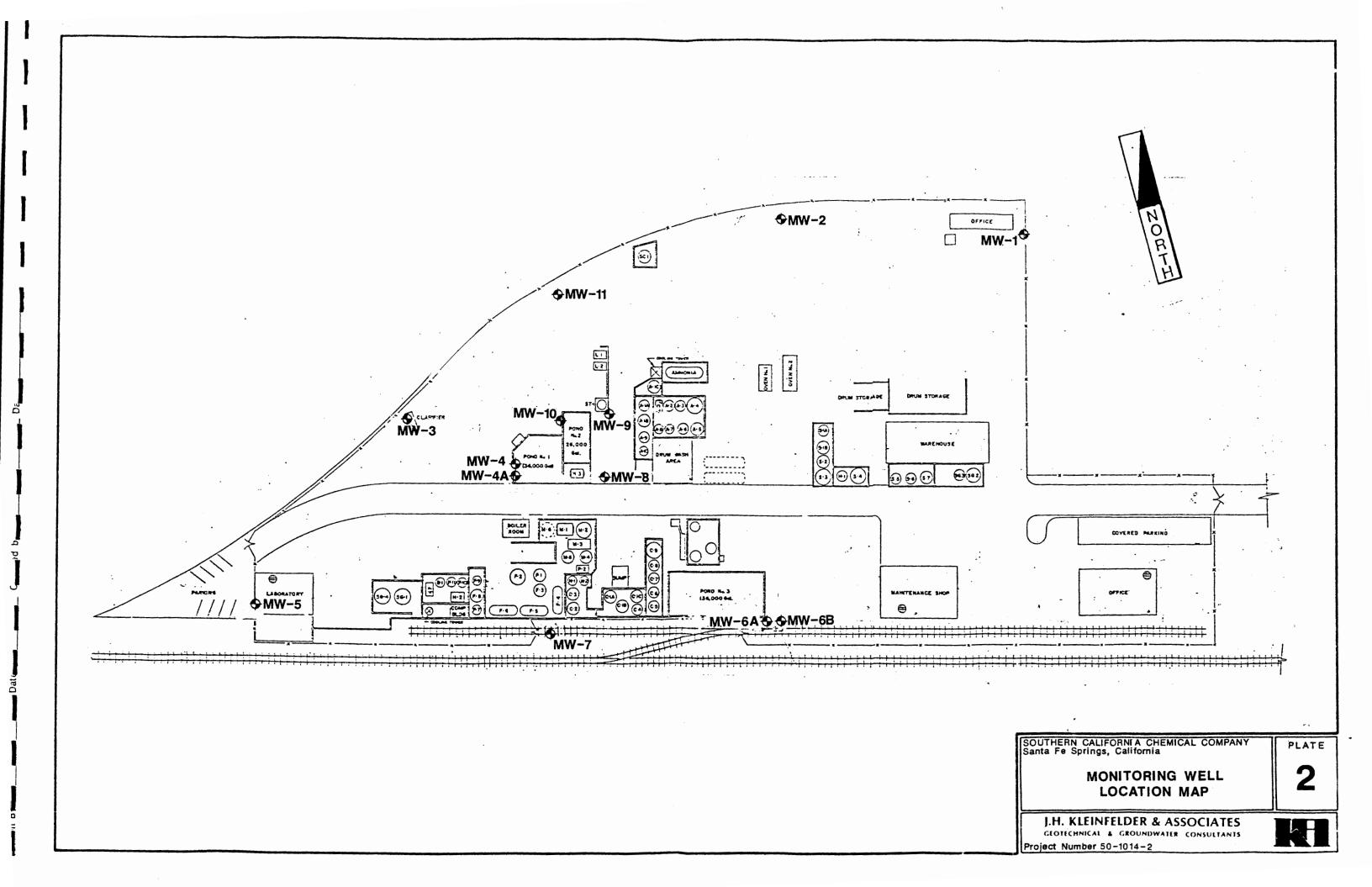
SITE LOCATION MAP

PLATE

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Project Number 50-1014-03

September 1987



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CENDRICH (SEX) (mo/1)	30.0%	8. 8.	KD .02		전, 66	30. OM	70. €	를 유	20° 28	e.
(TOT) WILLIAM	2000, 0%		.c. 64		10° GW	ND .01	15. CK	10. 02	5	ु
100 million (1)	9		당. 유		년 영	F0. 04	20. 25.	70' 29	20.0	12 53
113E (ag/1)	10. D		0.25		** GR	90° 08	0.00	120° OK	M Q	92
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CITATION AND MANUAL STREET, N.	P-3		다. 다 다		ire Ed	<u></u>	6 1 2 4 2 4	93	Pro-	PO 1
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(1/22) F600000 151		+0 €1°	00 QV	26	47	to to	함	26	£ 1	E3 E3
ETHYL SENIENE (mg/1)		2	95,000	1166	. UN	210	₹1	112	100 803 803	061
TRICHLENETHYLENE WOZIL		0T2	20		027	200	160	00 17-	102 Pro-) 1
TOLENE (46/1)		हब	13,000	17.7	1 (1)4	3	1 (74	e P	iri ela all	2
: Tron Mike The		 128	20,000	0000		ু	-	9	11 mg	#2 #3
THE THE PROPERTY OF THE PARTY AND THE PARTY		•		0.00	r :-	¢		1 10 2	f ()	•

VETE: 40 1 = Compound was not determed at 1 April.

SOUTHERN CALIFORNIA CAINICAL CO., INC.

HINS VILLERS RETAN

MONITORING WELL #4

	60 60 60 60 64	43 60 1 00 1	98/6	5/36	- Q	20 20 20 20	92/27	197	100/0	28/67
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ne baccacab now saw behoops of the 1370M	100 cc	ug/].		:						
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(1-2)CELESCENSE (42/1)		%:	9	덕	£'5	16	120	ē	₹78 #11 #11	3
TIN BELFERONOR-IT		100	roj er	55		61	0,1	S	ed.	OI.
1,2-3128, SRETTANE (un/1)		36 B	P 1.	34	10	(4 -4	S	47	note:	100
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CARBON TETRACHLORIDE (ugvl)	***	55 SE	100 100 100 100	92	1 0%	01 08	era era	NO 23	fi h etta etta	113
(Time Recent No.		05 08 20	۲-,	6 9	m	10	C-1	₹.6	8	13
STAYL BEXIEVE (ug/1)		2000	36	69	1100	670	270	180	1380	085
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O SO		B300	90	6.4 8.3	320	985	077	240	2789	(B)
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WOTE: WE I to beacound was not sentited at 1 Lag/1.

Socieme California Catalla, Co., Car.

WATER BUALITY DATA

Att 113% Edigiliwan

CH 0550 HESS

	2783 - 2755	36/8 - 58/6	900	90 /u	o cu	9/69	12/36	2/82	197 - 7/87	50.00
			E.P.A. Indicator Paremenars (CFR 40 265,92)	Garametara (Ö	ig 40 255, 32)					
100 m		ପ୍ରକ୍ର	102 F- 50		C - 71 C - 12 C -	(0.7 (0.7 (0.7 (0.7 (0.7 (0.7 (0.7)	F - F2			
7.12		30.05	80° E		80. 63	80. 08	80° GN		7	(A)
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CHROMICH (FOTAL) (me/l)			29. 05		30, 02	10° 92	ND .03		40. QK	10. 09
CHROMINE (HEX) (ag/1)		E. GK			20. OK	70° av	20' GN		10° 08	10. ex
CEDALLY (ap/1)			7. G		10° 97	16. 88	10. GM		10. QE	ं 9
COPPER (#0/1)			8		7. 9	*	No. 07		20. GW	9
/1/6m (mg/1)			20.0%		err Cr Ch Ch Ch Ch Ch Ch Ch Ch Ch Ch Ch Ch Ch	S. S.	700' GW		50 . ON	<u>.</u>
CALDRIDE (mg/l)			100		017	120	130		99,	921
WITH SE N (ap. 1)		14.9 *1			1.0	not.	6.3		ert tu Š	-6
MITRATE as MSS (ag/1)		62	13		P:-	e:i	28		str Cd	Pro- Craf
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(1/5m) 3K8412763K310-3'1						7 QV	14		u 3	멸
ACTION BEING			m		- 62	E.	9		E. 65	2
CARBON TETRACKLERIOR 144/1	gen all		1.02		- 08	AB 1	1 04		92	9
CHLORGEGRM (ugv1)			··			E GV	C4		F ~ * * *	9
CTHYL BENIEWE (ug/1)		•	 		1 08	- GR	1 02		e7.	9
TRICKLORGETHYLENE (15/1)			on.		i ···	r->	Ħ		S	ra ioi
TELLENE (uc/1)			~ : 65 85			2	77 OK		***	년 영
(YLE):E (Ud/1)					9				27. OX	. O.
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NGTE: NO : = Compound wes not defected at 1 ug/1.

BOUTHERN CALIFORNIA CHEMICAL CO., 176.

ELVE ALLES SELVE

S# TISK BWINDLINGS

DATE SAMPLED

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SOUTHERN CALIFORNIA CHEMICAL OB., INC.

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SOUTHERN CALIFORNIA CHEMICAL CO., INC.

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WITERIE as NOT (mg/l)	120	c4 c4	(3% word	12	19.5	28	0.5.5	07
WOTE: No 1 = Compauna was not detected at	is not detected at 1 ug/1.	Grganic Compounce (5.P.A. Aethod 524)	स्था विश्व स्थापन स्थापन स्थापन स्थापन					
(/ph) martimosounds-1.1			761	다	R	7.1	51 	<i>A</i> 1
1,1-310RLGROETHYLENE /uc/1)	1 (1)		दंश	413	-cı	60 62 72	o	- 19
1,2-61CHLDROGTHAME (ug/1)			*** **** ****	६न		10 QX	e.	9
SENZENE (ug/1)			M3 1	. 7	e e	8 B	9	9
CARBON TETRACHLORIDE (ug/1)				2	 	9	e.	10. Q
CHLEROFORM (up/1)	2			2	7	64 67	urg urg	#! #
E.HT. BENERA (uq/)	1 0k .	,	** 1°*	1 (N		· ·	9	10 12 /
TOLETTE (60/1)	ro Ed		j ¹¹²	. 0%	\$ ***	7.7	3	9 😥
AYLENE (MO/1)	I GN			e ex	; ;	i E	19	2
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NETE: ND : = Congoung was not denoted at 1 ug/).

COUTHERN DALIFORNIA CHEMICAL CO., 190.

				TE CT	in the state of th					
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 83	\$1.00 m	5/36		92/6	12/86	1 6	10	19/37
annaku		L LAJ	1	Parameters (SFR 40 265, 92)	R 40 265, 72)			1		4 5 6 6 7 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8
10 (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	6 6 5 1 1 1 1 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	\$. 65 6. 65	hu F. dec	1	er r- ca	**************************************	大の奥	N 19		1 10 10 mg
55. 1582, seance/ca)		2300	1503		75.08 1700	0;.009;	9081	2000 2000 2000		50. gs 1200. l
			or it	Specific Indicator Parameters	ameters					
(I/BE) (INCOME)		30. CM	28. 68		20° GM	50. GN	50. GW	5 92	\$, €	40. GN
CHSCRICH (MEX) (mg/l)		30° 0%	NO .02		ND .02	ND .02	ND .02	20° 08	20. 0%	MD .02
CADRICA (ag/1)		10.04	4D .009		70° 28	10. ON	10.0%	F. 65	70°	ND .02
(1/66) (800 and			No . 02		ND .02	5° 0€	20° GW	70. EV	ND .02	: 70° EN
[196 (ag/1)			ND .03		40. GM	EC. ON	ND .001	왕. 9	5°.	20, 68
CHLERIDE (mg/l)			929		027	273	្ស ប្រ	୍ଚିତ	200	120
NITABLE as N (ag/1)		F. 3	ে পা		€4 €4	2.7	C 4 503	163 64	ga na	ار الا
(1/0m) 20% 58 318%[[W		ยว นว	<u>6</u> 20		भक्षी इन्स्	텀			⇔	<u>6-</u>
NOTE: NO 1 = Compound was not detected at	s mai detected at	1 49/1.								THE COLUMN TWO IS
				Trgenic Compounds (E.P.A. Method 624)	(*) (*) (*) (*) (*) (*)		1 3 4 1 7 7 7			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1,1-DICHLORGETHANE (ug/1)			ল		-0	190	100	113	150	83 eq
1,1-3ICHLSROETHYLENE (ug/1)			F-5		œ	7.7	6.7	9 66	0% 64	no no
1.2-DICHLORGETARNE (ug/1)			***		श्री: इ.स	ची [.] [:-]	931	63.00	-4:1 1	9. Q
35NZE%E (ug/1)					1 02	I QN	7	eņ E	101 102 103 103	9.9
CARBON TETRACHLORIDE (ug/I)			9		æ	ND 1	PO	er G	eş E	E. E.
(1/en) Espace Ho					2	t d	I. 4	ะก นว	F. 08	00 00 00
(1/bn) 3531355 [3613]			- 4		£4	1 0%	1.0%	£.	E. CK	10 12
RICHLOROETHYLENE (ug/1)			o-		23	25	nati nati	29	ří	ra ua
1000EHE (49/1)			er I Gir F		N°1	2	1 05	63	112 GH	9.
			- F		I	 9	;	e g	6. OX	 ⊊
METANEME CHICARDER (mg/1)			u ,		1 02		1 02	Œ	op Lif	2.0

NOTE: 40 1 = Olabound was not detected at 1 ug/1.

SULTERN CALIFORNIA CHRICAL CO., 130.

WATER COALITY DATA

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50 mm

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(1/66) KOMMONO			18.		15. 12.	9	10. QN	T	9	eta eta
(7/2e) 654613			S. B.		20° 08	학 - 1 - 22 - 23	20' GN	55 Fg	45 .02	:: :
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THE STATE OF THE S		P2	0- 10		espe un d	2.5	16.5	en voi	177	Fa
vājE: Nā 1 = Cogpouns was not detectes at		904 200 100 100 24	0 0 0 0 0 0 0 0	Passic Compounds (E.P.A. Method 524)	Method 624)					
			65		ន	(1) (1)	8	::- :-	140	20
1,1-2103,630874718.8			ea ea		on ver	(),(()) ())	() +4 +4	***	e 1 P~	*:#* 13"1
TITE BENEFITS ON DESCRIPTION OF THE PROPERTY O			01		F-3 * 1	(1.5 f.F	04 40	05	63	lig da
BENZENE (ug/l)					音楽	ET CO	3 GK	ten gar 20	un 64 63 77	мў 172
Case Telegoster desco	· Ca		2		 E	2		ra ra	(2) (요)	tro eg
CMC 1820 1837 1			ឧ		etr s	ကျေး ကြ	77 5	2 5	in the second	1
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TAICH CAN HALL SALES (1971)			19		ю ·	.> "		3 -	180 0 0 0	10 m
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· 中心有意。 · · · · · · · · · · · · · · · · · · ·										

VSTE: NO 1 = Compound was not deterned at 1 ug/1.

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER BURLITY DATA

MONITORING WELL #10

JATE BAMPLED

	2/85 - 3/85	7/35 - 8/85	3/86	5/99	7/88	9876	12/36	12 m	1877 - 7372	50 m 10 m
25 SOC			E.P.A. Indicator Parameters (CFR 40 255.72)	Parageters (C	FR 40 255, 32)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
pH vesits/		6.3	r. ⊙	1 1 1 1 1 1 1 1 1 1 1	a F.C.	t . 20:	eq (2)	55 03 55 53 59	7 60	r in
10% (ag/1) 00 2003 (unametra)		0.17	340 .08		80° 68° 68° 68° 68° 68° 68° 68° 68° 68° 68	ब 	31.	97.		1985
				0 G						
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3						
CHROMIUM (TOTAL) (mg/l)		10. GM	18. ER		50. GK	20° @	ND .03	**·	40. OK	9. 88
CHROMIUM (HEX) (mo/1)		E. &			MB .02	40.0X	ND .02	ND .02	20. GM	20. CM
CASSIUM (aq/1)		10.0%			10. GK	10.0%	10. CN		15. gg	en en
CDPPER (mg/1)			30 ° 08		20° 0X	2	50° 08	20° ER	20. 0X	W
ZINC (84/1)			NO .03		40. CM	80. ON	700. GN	20.0%	20. OK	o. 04
CHLORIDE (mg/l)			150		120	3	1.90	160	260	923
VITABLE AS N 180/11		ND .1	ex		6.1	10.08	T. 02	** **	30.1	:: ::
NITRATE as NOT (ag/1)		ND 4,4	9°5 0N		6.6	40. 0M	4. GK	复	寸. 皇	. OS
NOTE: AD 1 = Compound was not detected at	s act determined at	Cr.								
			Greenic Compo	ūrganic Compounds (Ε. ² .β. Method 624)	Method 624)		1	1 1 2 2 2 3 1 1 1 1 1 2 2 2 2 3 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1,1-DICHLORDETHANE (ug/1)		ND 50	24		æ	01 GM	20	10 Q	22	£4
1,1-BICHLOROETHYLENE (ua/I)		MD 50	 4		7	*** ****	MD 20	10 曼		55
1,2-01CHLOROETHBNE (ug/1)		05 ek	17		98	200	270	6-1 ⊝0	160	25
BENZENE (ug/l)		S 92	e e		 	01 F	ND 20	100 M	50 E.S	E
CARBON TETRACHLERIDE (ug/1)	garina, garing	25 25	1 08		9	ा १ २	ND 20	E 02	ND 2.5	经
CHLORGFORM (ug/1)		ទ	T CE			A5 10	ND 20	5 GX	+-1 +-2	म् इप
ETHYL BENZENE (ug/1)		. 0029	89		= @	2200	1800	922	2050	360
TRICHLORDETHYLENE (ug/1)		250	254		in Tu	12	120	29	190	65
TCLLEKE (ug/1)		17,000	1.05			~() 	260	60 ga	rdr vrt	ea ea
KYLEME (ug/1)		20,000	C		22	<u>0</u> 2	009	120	200	es.
THE RESERVE OF THE PROPERTY OF THE PARTY OF		(0)			F21	9	ND 20	3 (P.	13	

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER SURLITY DATA

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English of the

	2/35 - 3/35	7/85 - 3/85	3/86	5/86	7/86	9/82	12/84	100 100 100	5/57 - 7/37	16/87
200			E.9.A. indicator	Pareaeters (CFR	3 40 255.72)					
60 - Mac 183)		-3 -0 m	1004 10 7 140 140		7.2	60 60 60 60 60 70 70 70 70 70 70 70 70 70 70 70 70 70	un r - un C -	113 EM	*** *** 00	Pro and
					e: ::	80. UN	1.	-1	P.3	2
SP. CCMD. (uatos, ca)		1600	1500		1700	1,500	1800	3027	2100	1500
			Site Specifi	bite Specific Indicator Parameters	10 Lead of the control of the contro					
		S. OK	N .03		20° CM	20' QN	20° GK	(A)	40. G#	E. ON
(T/OB) (NGH) HOLKSCHO		67 62 63			MD .02	ND .02	ZO. GM	20° ON	MD .02	20. G N
700 PM 100 PM 10		10. 65			10. dk	16. ON	10. GN	10. OK	10. OK	70. W
TO THE MAN AND AND AND AND AND AND AND AND AND A			70° GN		70° GW	∜. QN	ND .03	W .	80.02	를 . 모
[1780 (mg/l)			10. UN		\$0. G%	80. 당.	ND .001	20' CK	20. dk	S. 51
CALCALLE TAGATA		220	230		c) C)	230	057	027	270	110
(1/5m) M = 2 2/2/2/		2:	e g Bo		::	 G	3		0.7	
WITEATE as NET (mg/I)		5.2	11		est.	* GN	0.0	นา นา	P7	ഹ്
NOTE: NO 1 = Compound was not detected at 1 up.	not detected at	1 uç/l.								-
			Organic Coap	Organic Coapcunds (E.P.A. Method	1ethod 624)					
1,1-01CALCREETARNE (ug/1)			400 401	~1	9	ND 200	35 100	6.9	Ç4	60 64
1,1-31CHLORGETHYLENE (ug/1)			œ	64	ψ3	00Z UN	MD 100	co co	* 1 *-1	c <u>i</u>
1,2-DICHLORDETHAME (ug/1)			ಮ	31	11	ND 200	021	n.	e-I	es Pa
3EX.CXE (ug/1)			T ON	ю	ND 1	ND 200	ND 100	113	: :	e.
CARBON TETRACHLORIDE (ug/1)	,		I QN	2		002 ON	ND 100	9	5	in a
CHLOROFORM (ug/1)			M	ю	01	007 UN	ND 100	6.5	רט ריז	()
ETHAL BENZENE (ug/1)		•	2	1800	2200	0049	2300	92 19	1200	180
TRICHICKNETHYLENE (ug/L)			110	35	100	MB 200	180	er vir	ಹ	90 10
TOLLENE (ug/I)			23 23 24	5400	5200	14,000	7500	n 10	380	년 오
(7/62) ENERGY			8	4000	000	10,000	2000	220	S	۳. 9
					F 17.3	000 gm	1001 622	17	9	ti et

NOTE: ND 1 = Compound was not detected at 1 mg/l.

TABLE 13

CHEMICAL ANALYSIS OF SPLIT SAMPLES

		;: ! MW 4A ;		MH 4				MW 11	
,		A.T.1.	B & C	A.T.I.	- B & C	A.T.1.	B&C :	A.T.I.	P & C
; -	COMPOUND			1			;	,	
i-	1,1-D1CHLOROETHANE (ug/1)	0.42	1.2	150	120	19	21	3.7	2.3
	1,1-DICHLOROETHYLENE (ug/1)	ND .2	ND .5	; 80	110	1 21	28 5	ND 2	2.6 1
i i	1,2-DICHLOROETHANE (ug/1)	ND .2	ND .5	84	100	1 94	93	75	89 1
;	BENZENE (ug/1)	ND .5	ND .5	ND 50	ND .5	ND 5	ND .5	ND 5	ND .5 1
1	CARBON TETRACHLORIDE (ug/1)	ND .2	ND .5	ND 20	1.5	ND 2	ND .5	ND 2	ND .5 1
;	CHLOROFORM (ug/1)	ND .2	ND .5	1 ND 20	23	ND 2	2.3	ND 2	1.0 (
1	ETHYL BENZENE (ug/1)	ND .5	ND .5	1 440	380	300	260	150	180
i	TRICHLOROETHYLENE (ug/1)	1.1	. 3.2	350	190	110	130	19	36
ì	TOLUENE (ug/1)	ND .5	ND .5	l 970	580	1 ND 5	ND .5	ND 5	ND .5 :
ţ	XYLENE (ug/1)	ND .5	NO .5	1450	570	ND 5	ND .5	ND 5	1 C. DN
!	METHYLENE CHLORIDE (ug/1)	ND 2	5. QN	ND 200	110	ND 20	1.8	ND 20	1 5. GM !

NOTE: NO 1 = Compound was not detected at 1 ug/1.

B & C = Brown & Caldwell Laboratories

A.T.I. = Analytical Technologies, Inc.

TABLE 14 SEQUENCE OF SAMPLING

	PARAMETERS										
MONITORING WELL NO.	·	: 1,1-DICHLORDETHYLENE		TRICHLOROETHYLENE	TGLUENE	CHLORGFORM	METHYLENE CHLORIDE				
							· •				
80 3415	i ND .E	: ND .5	B. UA	1 ND .5	ND .5	0.65	17				
NW 1	5. GM	ND .5	E. CM	24	ND .5	ND .5	1.7				
XW 3	6.9	15	290	150	NO .5	N2 .5	7.6				
Mk 65	: ND .5	ND .5	.5 .5	33	ND .5	NO .5	1.2				
QC 1571	: . ND .5	NS .5	ND .5	ND .5	ND .5	0.73	20				
W 7	6.0	0.55	ND .5	36	ND .5	. 07 .5	1.1				
MW 2	i i 2.5	0.54	ND .5	40	ND .5	0.73	11				
## 5	i 0.69	0.25	ND .5	26	ND .5	85	4.3				
QC 1730	NG .E	NE .5	ND .5	ND .5	ND .5	0.76	25				
# ¥ 8	45	5.5	KD .5	25	ND .5	(0.55	3.6				
MF 9	130	64	ND .5	150	ND .5	27	53				
然料 4台	1.2	ND .5	ND .5	3.2	ND .5	ND .5	ND .5				
QC 1788	NO .5	ND .5	ND .5	. ND .5	₩Ď .5	ND5	5.3				
₫% 11	2.5	2.6	180	36	ND .5	1.0	N2 .5				
## 10	21	28	360	130	KG .5	2.3	1.5				
版: 4	120	116	380	: 190	580 580	l i 23	110				
THE T	1 120		557	: 27V	uev	: 20 1 1					
		-									

NOTE: Concentrations are in ug/1 (ppb).

ND .5 = Compound was not detected at 1 ug/1.

CHEMICAL ANALYSIS OF SPIKED SAMPLES

		C.R.L.		-	1 4 5	A.T.I.	
		Concentration				Concentration	% Difference From Talculated
	TOLUENE (ug/1)	194	190	220	113%	140	72%
	ETHYL BEMZEME (ug/l)	151	138	160	105%	110	구구한 : 설명
į	TRICHLOROETHYLENE (ug/1)	74	73	97	117%	44	59%
							į

NOTE: A.T.I. = Analytical Technologies, Inc.

B & C = Brown & Caldwell Laboratories

C.R.L. = Chemical Research Laboratories

TABLE 16

GROUNDWATER LEVEL ELEVATIONS (feet MSL)

gener gener	paren KCO	-0	tr:	**d	€~ 170	Ф»	ξĦ	.#14 DLD:	.Jæ	E.M	\$ <.0	front	# # # # # # # # # # # # # # # # # # #
6.7 6.4 0.6	CH CH Pro-	prosts ff ff je of m prosts uljites	1500 -3100 -5400 -4 -0.15 -0.54	poor apro- edit e le de real	production of the second of th	(2-0) -070 -070 -070 -074 -074	promi 10,001 Card en 10,001 pages	65 65 63 8 46 40	and disconnection of the connection disconnection	UH em Or- that	CH CH prom H CH CH	6.44 6.41 6.4 6.4 6.4 1.4	
6.H 6.H	្ ទ	77.0	(~-4 (en en	the sufficient of the sufficie	30. 0	्रें	107.0	7n.0	(i) (i)	60.4 1420 6.15	On- (+3) (-13)	
E.P) E.FF - 5 	्राक्त संभाग । १५ वर्ष १५ म	-F0	. (\$200) paraba - \$1 ***	. (1) (1) (2) (1) (2) (1)		(A)	425 (151 1 7.4 (15)	87-107	455 EN + -/-4 CR	ара С.П 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	dina dina di di dia	4% PO CIT UPS 150 150	* Ground luntariant interval
					106 45		CB CB		105.76	este (CDA Curry M (CA) (A)		600 600 600 400 400	
					(C)	#100 400 #100 #100 #100	106.02		1005 (CD) (CD) (CD) (CD) (Fig. 1005)	107 107 107 107	107.72	(C) (C) (C) (C) (1) (1) (C)	
(C) (C) (C)	0 7 m 60	108.35	107.98	65 54 48 60			107.48	(C) (C) (C) (C) (C) (C) (C) (C) (C)	00 00 • 44 65	600 600 8 4 14 14	100 200 100 100	00 00 00 00	
A () () () () () () () () () (D	104.98	106.86		© ~1 *0 *0 *0	F0.91	104.03	109.43	105.15	(-) Or Or Or Or	en en en	(C) (D) (D)	43 1 43 1 43 1 43
0.00	104.67	00 40 100 100 100	104.78	(C) (B) (C) (C) (C)	#200 - 1200 - 200 - 1500 - 1500		103.B4		04.50		00 00 46 70	106	1
101.96	06.70	ganta (C) (S) (S) (B) (B) (B) (B) (B)	0-00	101.07	CO PO Maria Maria (XX)		100.46	102.67	101.42	PO Pot PO PO	900 (22) (10) (10) (40) (40)	10 27 44	04 1 20 1 10 10 10 10 10 10 10 10 10 10 10 10
() () () () ()	106.	104.72	(**) Or * !>:0	600 600 600 8 904 604	106,02		0 0 4 4 0	107.29	49	64 64	07	670 571 571 571 673	7-09-66
600 600 Cold 604 604 604	C0 C4 C0	pas ()) ()4 () () () ()	103.17		Post		102.49	104,29	10 12 18	(2.14 (2.14 (2.14 (2.14 (2.14)	0.5	500 600 600 600 600	-0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
102.65	102.404	100 27 74	01.		2 (44) 4000 4000 4000 4000 4000 4000		pro- CO Pri- Alla Pri-	102.09	production of CDD production o	102.07	102.95	103.55	17-17-86
	60 60 60 80	104 02	i).	posts KD0 posts M UCF Ps()	(0) (0) (n)		101.37		- No	(0) (0) (0)	() () ()	103.71	3-31-27
Grand SIDA PSID M Upon proces	() () () ()	103.53	60 60 60 60 60	99.20	produced of the second of the		-0 -0 -0 -0	1000	102.95	101.07	600 604 • • • •	10 27 27	7/1/87
~Q1 Q23 * P-2 bes*	-स क क क	-7: 03 -7: 04	*43 900 **** FeB	433 **4 ***1 £#1	70 60 27 00		- 40 - 65 - 150 - 45	98,92	97.75	77	-0 00 00 00 00	100.09	10/17/87

NOTE: MSL = Elevations in feet above mean sea level.

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APPENDIX

MONITORING WELL SAMPLING PROTOCOL

II. Groundwater Sampling

A. Decontamination

The following procedure details the routine that is employed in decontamination of groundwater sampling equipment prior to sample collection:

- 1. Exterior surface of sampling tubes are decontaminated by steam-cleaning during withdrawal from every well.
- 2. Sample pump is disassembled and the used bladder removed.
- 3. All pump components are then steam-cleaned and rinsed in distilled water.
- 4. Pump is re-assembled with a new bladder installed.
- 5. Teflon sampler lines are pressure washed with 5 to 10 gallons of clean, hot water through direct connection to steam-cleaner.
- 6. Five gallons of distilled water are then pumped through entire system.
- 7. Prior to sample collection, a minimum of five well volumes are purged from the well to permit collection of a representative groundwater sample from the aquifer penetrated.
- B. Purge Volume Determination

The following procedure is followed to determine the appropriate purging volume prior to well sampling.

1. The depth-to-water is measured by a clean, electric water level indicator. Measurement datum is the top of fill ring or top of well protector.

- 2. Depth to the bottom of the well is measured by a clean tape and plumb bob. If possible, this is compared to the well construction log to determine inconsistencies, i.e., damaged casing, sediment in casing, etc.
- 3. Water volume is calculated by multiplying total water depth by the volume of one foot of the casing. This figure is one well volume.
- C. Well Purging and Sampling
- 1. Prior to sampling, a minimum of three to five well volumes are purged from each well to ensure that water sampled is representative of the groundwater within the formation.
- 2. Measurements of pH, conductivity and temperature are taken at frequent intervals during the purge. Stabilization of these values indicates that representative formation fluids are being removed from the well.
- 3. In the event that the well is pumped dry, an alternate procedure will be followed. Once a well is pumped dry, the water that enters the well during recovery is, by definition, representative formation water. The well will, therefore, be pumped dry and allowed to recover to 80% or more of the original water level.
- 4. Purge water is pumped directly into barrels on site until the proper method of disposal is determined.
- 5. Samples pumped directly into sampling bottles prepared by the state certified laboratory contracted for the particular job are labeled and placed in coolers for transport to the laboratory.
- 6. Samples are delivered directly to the lab on the same day of sampling by courier, whenever practical. If next-day delivery is necessary, the samples are kept refrigerated at 4 degrees Celsius overnight and delivered to the laboratory the following morning.
- 7. Samples are accompanied by a Chain of Custody form which documents the time, date, and responsible person during each step of the transportation process.
- 8. The KLEINFELDER coded sample numbering system allows identification of sample and client to KLEINFELDER, while not revealing the client to the laboratory or other interested parties.

Water samples are numbered in the following manner:

W-XX-YY

Where:

W - designates water sample

XX - well number

YY - sequential sample number

For example, W-01-22 indicates a water sample from well number 1. The sample is the 22nd water sample taken at the site.

9. The complete information on the sample label includes:

Date and time
Client job number (never client name)
Sample number
Initials of sampler
Analysis desired (if known)
Preservatives in sample bottle (usually noted by lab)

10. Each sample bottle is given a separate sequential number.

AP	P	EN	ID	I	X	В
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373 SOUTH FAIR OAKS AVENUE PASADENA. CA 91105 • (818) 795-7553

November 2, 1987

Lab No. P87-10-284 P87-10-341

Mr. Ken Durand Kleinfelder & Associates 17100 Pioneer Boulevard, Suite 350 Artesia, California 90701

Dear Mr. Durand:

Brown and Caldwell analyzed ten groundwater samples taken October 13-15, 1987, for Project 50-1014-3. A summary of the methods used in the analysis is provided below:

Analyte	Method No.	Reference	Description
Hexavalent Chromium	7196	1	Colorimetric
Nitrate	353.2	2	Automated Cd reduction
Quad. TOC	415.1	2	Combustion
Sulfite	300.0	2	Ion Chromatography
Quad. Conductivity	120.1	2	Specific conductance
Quad. pH	150.1	2	Electrometric
Chloride	325.3	2	Titrimetric mercury
011201200			nitrate
Sulfate	375.4	2	Turbidimetric
Quad. TOX	506	3	Adsorption-pyrolysis
Cadmium	213.1	2	AA, Direct aspiration
Chromium	218.1	2	AA, Direct aspiration
Copper	220.1	2	AA, Direct aspiration
Zinc	289.1	2	AA, Direct aspiration
Volatile Purgeable	624	4	GC/MS for Volatile
Priority Pollutants			organics

Reference:

1. SW-846, Test Methods for Evaluating Solid Waste, 3rd Edition, November, 1986.

 USEPA-600/4-79-020, Method for the Examination of Water and Wastewater, March, 1983.

Standard Methods for the Examination of Water and Wastewater, 16th Edition, 1986.

4. 40 CFR Part 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, Federal Register, October 26, 1984.

Mr. Ken Durand November 2, 1987 Page two

Should you have any questions, please do not hesitate to call us.

Very truly yours,

BROWN AND CALDWELL

Jane Freemyer / Section Supervisor

JF: lah

NOV 0 4 1987 ANALYTICAL REPORT

373 SOUTH FAIR OAKS AVENUE PASADENA, CA 91105 • (818) 795-7553

LOG NO: P87-10-284

Received: 13 OCT 87 Reported: 28 OCT 87

Ken Durand J. H. Kleinfelder & Associates 17100 Pioneer Blvd., Suite 350 Artesia, California 90701

Sp. Cond., 2nd Replicate, umhos/cm 1600

Sp. Cond., 3rd Replicate, umhos/cm 1600

Sp. Cond., 4th Replicate, umhos/cm 1600

Project: 50-1014-3

3100

3100

3100

1300

1300

1300

Page 1

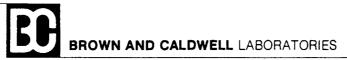
DATE SAMPLED LOG NO SAMPLE DESCRIPTION, GROUND WATER SAMPLES 10-284-1 W-02-(1694-1711) 10-284-2 W-05-(1712-1729) 10-284-3 W-08-(1732-1749) 10-284-4 W-09-(1750-1767) 10-284-5 W-00-(1730-1731) 13 OCT 87 PARAMETER 10-284-1 10-284-2 10-284-3 10-284-4 10-284-5 <0.02 <0.02 <0.02 0.59 Hexavalent Chromium, mg/L Nitrate Nitrogen 37 Nitrate (as NO3), mg/L 32 24 19 7.2 5.4 4.3 8.4 Nitrate (as N), mg/L Quadruplicate TOC: <3 6 <3 15 TOC, Average, mg/L 0 3.5 0 1.9 TOC, Standard Deviation, mg/L 5 <3 14 <3 TOC, 1st Replicate, mg/L TOC, 2nd Replicate, mg/L <3 5 <3 14 <3 7 <3 20 TOC, 3rd Replicate, mg/L 9 <3 12 <3 TOC, 4th Replicate, mg/L Quadruplicate Conductivity: 3100 1300 1300 Sp. Cond., Average, umhos/cm 1600 50 Sp. Cond., Std. Deviation, umhos/cm 0 0 0 3000 Sp. Cond., 1st Replicate, umhos/cm 1600 1300 1300

1300

1300

1300

REPORT OF ANALYTICAL RESULTS



373 SOUTH FAIR OAKS AVENUE PASADENA, CA 91105 • (818) 795-7553

LOG NO: P87-10-284

Received: 13 OCT 87 Reported: 28 OCT 87

Ken Durand J. H. Kleinfelder & Associates 17100 Pioneer Blvd., Suite 350 Artesia, California 90701

Copper, mg/L

Dissolved Digestion, Date

Zinc, mg/L

Project: 50-1014-3

<0.02

<0.03

10/23/87

<0.02

<0.03

10/23/87

<0.02

<0.03

10/23/87

Page 2

LOG NO SAMPLE DESCRIPTION, GROUND WATER SAMPLES DATE SAMPLED ______ 13 OCT 87 10-284-1 W-02-(1694-1711) 13 OCT 87 10-284-2 W-05-(1712-1729) 10-284-3 W-08-(1732-1749) 10-284-4 W-09-(1750-1767) 13 OCT 87 13 OCT 87 10-284-5 W-00-(1730-1731) ______ PARAMETER 10-284-1 10-284-2 10-284-3 10-284-4 10-284-5 Quadruplicate pH: 7.125 0.05 pH, Average, Units 6.875 7.025 7.1 0.05 0.05 0 pH, Standard Deviation, Units 7.0 7.1 7.1 6.9 pH, 1st Replicate, Units 6.9 pH, 2nd Replicate, Units 7.1 7.0 7.1 pH, 3rd Replicate, Units 7.2 7.0 7.1 6.8 7.1 6.9 pH, 4th Replicate, Units 7.1 7.1 100 120 630 180 Chloride, mg/L Quadruplicate TOX: TOX, 1st Replicate, ug/L <80 <80 <80 280 TOX, 2nd Replicate, ug/L <80 <80 280 <80 <80 <80 <80 270 TOX, 3rd Replicate, ug/L <80 320 <80 <80 TOX, 4th Replicate, ug/L 290 <80 TOX, Average, ug/L <80 <80 22 0 0 0 TOX, Standard Deviation, ug/L <0.02 <0.02 <0.02 <0.02 Cadmium, mg/L <0.04 <0.04 0.84 Chromium, mg/L <0.04

<0.02

<0.03

10/23/87

REPORT OF ANALYTICAL RESULTS



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LOG NO: P87-10-284

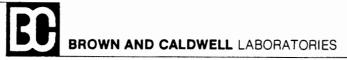
Received: 13 OCT 87 Reported: 28 OCT 87

Ken Durand J. H. Kleinfelder & Associates 17100 Pioneer Blvd., Suite 350 Artesia, California 90701

Project: 50-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION,	GROUND WAT	ER SAMPLES		DA	TE SAMPLED
10-284-1 10-284-2 10-284-3 10-284-4 10-284-5	W-02-(1694-1711) W-05-(1712-1729) W-08-(1732-1749) W-09-(1750-1767) W-00-(1730-1731)					13 OCT 87 13 OCT 87 13 OCT 87 13 OCT 87 13 OCT 87
PARAMETER		10-284-1	10-284-2	10-284-3	10-284-4	10-284-5
Halocarbons	(EPA 601)					
Date Extra	•	10/22/87	10/22/87	10/22/87	10/22/87	10/22/87
Dilution Fa	actor, Times l	1	1	1	1	1
1,1,2,2-Te	trachloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trick	hloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
	roethane, ug/L	2.5	0.89	45	130	<0.5
l,l-Dichlo	roethene, ug/L	0.94	0.85	5.5	84	<0.5
	robenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
	roethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
	Dichloroethene, ug/L	<0.5	<0.5	11	7.7	<0.5
	ropropane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
	robenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
	robenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
	hylvinylether, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
	oromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromometha		<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform,		<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenze		<0.5	<0.5	<0.5	<0.5	<0.5
	rachloride, ug/L	<0.5	99	<0.5	<0.5	<0.5
Chloroetha	. •	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	•	0.73	85	0.55	27	0.76
Chlorometha		<0.5	<0.5		<0.5	<0.5
Dibromochlo	oromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5



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LOG NO: P87-10-284

Received: 13 OCT 87 Reported: 28 OCT 87

Ken Durand J. H. Kleinfelder & Associates 17100 Pioneer Blvd., Suite 350 Artesia, California 90701

Project: 50-1014-3

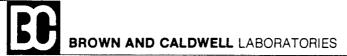
<0.5

<0.5

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<0.5

REPORT OF ANALYTICAL RESULTS Page 4 SAMPLE DESCRIPTION, GROUND WATER SAMPLES DATE SAMPLED 10-284-1 W-02-(1694-1711)13 OCT 87 10-284-2 W-05-(1712-1729) 13 OCT 87 10-284-3 W-08-(1732-1749) 13 OCT 87 10-284-4 W-09-(1750-1767) 10-284-5 W-00-(1730-1731) 13 OCT 87 -13 OCT 87 PARAMETER 10-284-1 10-284-2 10-284-3 10-284-4 10-284-5 Dichlorodifluoromethane, ug/L <0.5 <0.5 <0.5 <0.5 11 4.3 3.6 83 25 Methylene chloride, ug/L Tetrachloroethene, ug/L 0.72 3.9 <0.5 1.1 <0.5 1,1,1-Trichloroethane, ug/L 4.8 <0.5 <0.5 Trichloroethylene, ug/L 40 26 25 150 <0.5 <0.5 Trichlorofluoromethane, ug/L <0.5 <0.5 <0.5 Vinyl chloride, ug/L <0.5 <0.5 <0.5 <0.5 <0.5 cis-1,3-Dichloropropene, ug/L <0.5 trans-1,3-Dichloropropene, ug/L <0.5 <0.5 <0.5 <0.5 <0.5



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Project: 50-1014-3

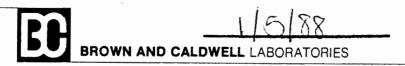
REPORT (ΟF	ANALYTICAL	RESULTS
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Page 5

LOG NO	SAMPLE DESCRIPTION,	GROUND WAT	ER SAMPLES		DA	TE SAMPLED
10-284-2 10-284-3 10-284-4	W-02-(1694-1711) W-05-(1712-1729) W-08-(1732-1749) W-09-(1750-1767) W-00-(1730-1731)					13 OCT 87 13 OCT 87 13 OCT 87 13 OCT 87 13 OCT 87
PARAMETER		10-284-1	10-284-2	10-284-3	10-284-4	10-284-5
Chlorobenze 1,2-Dichlor 1,3-Dichlor	ted ctor, Times 1 ne, ug/L obenzene, ug/L obenzene, ug/L obenzene, ug/L /L e, ug/L	10/22/87 1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5	<0.5	1 <0.5 <0.5 <0.5 <0.5	1 <0.5 <0.5 <0.5 <0.5 <0.5
Additional Total Xyle	Compounds: ne Isomers, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5

Robert Eak for Edward Wilson, Laboratory Director

AMENDED REPORT



ANALYTICAL REPORT

373 SOUTH FAIR OAKS AVENUE PASADENA, CA 91105 •(818) 795-7553 • FAX (818) 795-8579

LOG NO: P87-10-341

Received: 15 OCT 87 Reported: 03 NOV 87

Ken Durand J. H. Kleinfelder & Associates 17100 Pioneer Blvd., Suite 350 Artesia, California 90701

Project: 50-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION	N, GROUND WAT	ER SAMPLES		DA	TE SAMPLED
10-341-1 10-341-2 10-341-3 10-341-4 10-341-5	W-4A-(1770-1787) W-11-(1792-1809) W-10-(1812-1829) W-04-(1832-1849) W-00-(1788,1789)	50-1014-3 50-1014-3				15 OCT 87 15 OCT 87 15 OCT 87 15 OCT 87 15 OCT 87
PARAMETER		10-341-1	10-341-2	10-341-3	10-341-4	10-341-5
Hexavalent (Chromium, mg/L	<0.02	<0.02	<0.02	232	
Nitrate (as	s NO3), mg/L	27	6.8	<0.4	5.8	
Nitrate (as		6.1	1.5	<0.1	1.3	
Quadruplicat	te TOC:					
TOC, Averag	ge, mg/L	<3	61	56	90	
TOC, Standa	ard Deviation, mg/I	L 0	2.1	2.5	6.4	
TOC, 1st Re	eplicate, mg/L	<3	59	56	85	
TOC, 2nd Re	eplicate, mg/L	<3	64	54	86	
TOC, 3rd Re	eplicate, mg/L	<3	61	60	90	
TOC, 4th Re	eplicate, mg/L	<3	61	56	99	
Quadruplicat	te Conductivity:					
	Average, umhos/cm	1700	1600	1900	7300	
	Std. Deviation, un		0	0	0	
Sp. Cond.,	1st Replicate, umh	nos/cm 1700	1600	1900	7300	
	2nd Replicate, umh		1600	1900	7300	
	3rd Replicate, umh		1600	1900	7300	
Sp. Cond.,	4th Replicate, umh	nos/cm 1700	1600	1900	7300	



ANALYTICAL REPORT

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LOG NO: P87-10-341

Received: 15 OCT 87 Reported: 03 NOV 87

Ken Durand J. H. Kleinfelder & Associates 17100 Pioneer Blvd., Suite 350 Artesia, California 90701

Project: 50-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO SAMPLE DESCRIPTION	, GROUND WAT	ER SAMPLES		DA	TE SAMPLED
	50-1014-3 50-1014-3 50-1014-3				15 OCT 87 15 OCT 87 15 OCT 87
10-341-4 W-04-(1832-1849)					15 OCT 87
10-341-5 W-00-(1788,1789)					15 OCT 87
PARAMETER	10-341-1	10-341-2	10-341-3	10-341-4	10-341-5
Quadruplicate pH:					
pH, Average, Units	7.225	7.4	7.1	6.3	
pH, Standard Deviation, Units	0.05	0	0	0	
pH, 1st Replicate, Units	7.2	7.4	7.1	6.3	
pH, 2nd Replicate, Units	7.2	7.4	7.1	6.3	
pH, 3rd Replicate, Units	7.2	7.4	7.1	6.3	
pH, 4th Replicate, Units	7.3	7.4	7.1	6.3	
Chloride, mg/L	120	110	230	1800	
uadruplicate TOX:					
TOX, 1st Replicate, ug/L	< 80	<80	180	2100	
TOX, 2nd Replicate, ug/L	<80	<80	180	1700	
TOX, 3rd Replicate, ug/L	< 80	<80	190	1700	
TOX, 4th Replicate, ug/L	<80	<80	170	1800	
TOX, Average, ug/L	<80	<80	180	1800	
TOX, Standard Deviation, ug/L	0	0	8	190	
Cadmium, mg/L	<0.02	<0.02	<0.02	0.33	
hromium, mg/L	<0.04	<0.04	<0.04	190	
Copper, mg/L	<0.02	<0.02	<0.02	<0.02	
Zinc, mg/L	<0.03	<0.03	<0.03	<0.03	
Dissolved Digestion, Date	10/27/87	10/27/87	10/27/87	10/27/87	



ANALYTICAL REPORT

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LOG NO: P87-10-341

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Ken Durand J. H. Kleinfelder & Associates 17100 Pioneer Blvd., Suite 350 Artesia, California 90701

Project: 50-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO SAMPLE DESCRIPTION	, GROUND WAT	ER SAMPLES		D.	ATE SAMPLED
10-341-2 W-11-(1792-1809)					15 OCT 87 15 OCT 87 15 OCT 87 15 OCT 87 15 OCT 87
PARAMETER	10-341-1	10-341-2	10-341-3	10-341-4	10-341-5
Halocarbons (EPA 601) Date Extracted Dilution Factor, Times 1 1,1,2,2-Tetrachloroethane, ug/L 1,1-Dichloroethane, ug/L 1,1-Dichloroethene, ug/L 1,2-Dichlorobenzene, ug/L 1,2-Dichloroethane, ug/L trans-1,2-Dichloroethene, ug/L 1,3-Dichloropropane, ug/L 1,3-Dichlorobenzene, ug/L 1,4-Dichlorobenzene, ug/L 2-Chloroethylvinylether, ug/L Bromodichloromethane, ug/L Bromoform, ug/L Chlorobenzene, ug/L Chloroethane, ug/L Chloroethane, ug/L Chloroform, ug/L Chloroform, ug/L Chloromethane, ug/L Chloromethane, ug/L Dibromochloromethane, ug/L	<0.5 1.2 <0.5 <0.5 <0.5	10/25/87 1	1	1 <0.5 <0.5 120 110 <0.5 100 41 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	10/25/87 1



ANALYTICAL REPORT

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LOG NO: P87-10-341

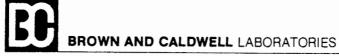
Received: 15 OCT 87 Reported: 03 NOV 87

Ken Durand J. H. Kleinfelder & Associates 17100 Pioneer Blvd., Suite 350 Artesia, California 90701

Project: 50-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, O	GROUND WAT	ER SAMPLES		DA	TE SAMPLED
10-341-1 10-341-2 10-341-3 10-341-4 10-341-5	W-11-(1792-1809) 50- W-10-(1812-1829) 50- W-04-(1832-1849) 50-	-1014-3 -1014-3 -1014-3 -1014-3 -1014-3				15 OCT 87 15 OCT 87 15 OCT 87 15 OCT 87 15 OCT 87
PARAMETER		10-341-1	10-341-2	10-341-3	10-341-4	10-341-5
Methylene Tetrachlor 1,1,1-Tric Trichloroe Trichlorof Vinyl chlo cis-1,3-Di	fluoromethane, ug/L chloride, ug/L coethene, ug/L chloroethane, ug/L chloromethane, ug/L cride, ug/L chloropropene, ug/L chloropropene, ug/L	<0.5 <0.5 <0.5 <0.5 3.2 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 2.5 36 <0.5 <0.5 <0.5	<0.5 1.8 1.5 5.8 130 <0.5 <0.5 <0.5 <0.5	<0.5 110 4.5 2.1 190 <0.5 <0.5 <0.5	<0.5 5.3 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5



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LOG NO: P87-10-341

Received: 15 OCT 87 Reported: 03 NOV 87

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Project: 50-1014-3

REPORT OF ANALYTICAL RESULTS

Page 5

LOG NO	SAMPLE DESCRIPTIO	N, GROUND WAT	ER SAMPLES		DA	TE SAMPLED
10-341-1 10-341-2 10-341-3 10-341-4 10-341-5	W-4A-(1770-1787) W-11-(1792-1809) W-10-(1812-1829) W-04-(1832-1849) W-00-(1788,1789)	50-1014-3				15 OCT 87 15 OCT 87 15 OCT 87 15 OCT 87 15 OCT 87
PARAMETER		10-341-1	10-341-2	10-341-3	10-341-4	10-341-5
Date Extra Dilution F Chlorobenz 1,2-Dichlo 1,3-Dichlo	actor, Times 1 ene, ug/L robenzene, ug/L robenzene, ug/L robenzene, ug/L g/L ne, ug/L	10/25/87 1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	10/25/87 1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	10/25/87 1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	10/25/87 1 1.1 <0.5 <0.5 <0.5 <0.5 <0.5 380 580	10/25/87 1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
	Compounds: ene Isomers, ug/L	<0.5	<0.5	<0.5	570	<0.5

Report amended 12/14/87 to correct 601 results for 1,2-DCA. -- J. Jones

Edward Wilson, Laboratory Directo

AMENDED REPORT



110188

BROWN AND CALDWELL LABORATORIES

ANALYTICAL REPORT

373 SOUTH FAIR OAKS AVENUE PASADENA, CA 91105 €(818)795-7553 ●FAX (818)795-8579

LOG NO: P87-10-201

Received: 09 OCT 87 Reported: 21 OCT 87

Ken Durand J. H. Kleinfelder & Associates 17100 Pioneer Blvd., Suite 350 Artesia, California 90701

Project: 50-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO SAMPLE	DESCRIPTION	, GROUND WAT	ER SAMPLES		DA	TE SAMPLED
10-201-2 W-03-(1 10-201-3 W-6B-(1 10-201-4 W-07-(1	1617-1634) 1635-1652) 1653-1670) 1673-1691) 1615-1616)	50-1014-3 50-1014-3 50-1014-3 50-1014-3 50-1014-3				09 OCT 87 09 OCT 87 09 OCT 87 09 OCT 87 09 OCT 87
PARAMETER		10-201-1	10-201-2	10-201-3	10-201-4	10-201-5
Hexavalent Chromium Nitrate Nitrogen	n, mg/L	<0.02	<0.02	<0.02	<0.02	
Nitrate (as NO3),	mg/L	11	23	37	18	
Nitrate (as N), mg	_	2.5	5.2	8.4	4.1	
Quadruplicate TOC:						
TOC, Average, mg/L		32	50	9	5	
TOC, Standard Devi	lation, mg/L	1.4	1.7	2.5	1.0	
TOC, 1st Replicate	e, mg/L	30	53	9	5	
TOC, 2nd Replicate		33	49	12	6	
TOC, 3rd Replicate		32	50	9	4	
TOC, 4th Replicate		33	50	6	6	
Quadruplicate Condu	-					
Sp. Cond., Average		3800	3300	1400	5000	
Sp. Cond., Std. De			50	0	0	
Sp. Cond., 1st Rep			3200	1400	4900	
Sp. Cond., 2nd Rep			3300	1400	5000	
Sp. Cond., 3rd Rep			3300	1400	5000	
Sp. Cond., 4th Rep	olicate, umb	os/cm 3800	3300	1400	5000	



ANALYTICAL REPORT

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LOG NO: P87-10-201

Received: 09 OCT 87 Reported: 21 OCT 87

Ken Durand J. H. Kleinfelder & Associates 17100 Pioneer Blvd., Suite 350 Artesia, California 90701

Project: 50-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO SAMPLE DESCRIPTION,	GROUND WAT	ER SAMPLES		DA	TE SAMPLED
10-201-2 W-03-(1635-1652) 5 10-201-3 W-6B-(1653-1670) 5	0-1014-3 0-1014-3 0-1014-3 0-1014-3 0-1014-3				09 OCT 87 09 OCT 87 09 OCT 87 09 OCT 87 09 OCT 87
PARAMETER	10-201-1	10-201-2	10-201-3	10-201-4	10-201-5
Quadruplicate pH:					
pH, Average, Units	6.875	6.9	7.1	7.35	
pH, Standard Deviation, Units	0.05	0	0	0.0577	
pH, 1st Replicate, Units	6.9	6.9	7.1	7.4	
pH, 2nd Replicate, Units	6.8	6.9	7.1		
pH, 3rd Replicate, Units	6.9	6.9	7.1		
pH, 4th Replicate, Units	6.9			7.3	
Chloride, mg/L	770	740	94	1200	
Quadruplicate TOX:					
TOX, 1st Replicate, ug/L	<80	250	<80	<80	
TOX, 2nd Replicate, ug/L	<80	270	<80	<80°	
TOX, 3rd Replicate, ug/L	<80	280	<80	<80	
TOX, 4th Replicate, ug/L	<80	270	<80	<80	
TOX, Average, ug/L	<80	270	<80	480	
TOX, Standard Deviation, ug/L	0	13	0	0 <0.02	
Cadmium, mg/L	<0.02 <0.04	<0.02 <0.04	<0.02 <0.04	<0.02	
Chromium, mg/L Copper, mg/L	<0.04	<0.04	<0.04	<0.04	
Zinc, mg/L	<0.02				
Dissolved Digestion, Date			10/13/87		



ANALYTICAL REPORT

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Project: 50-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO SAMPLE DESCRIPTION	, GROUND WAT	ER SAMPLES		DA	TE SAMPLED
10-201-2 W-03-(1635-1652)					09 OCT 87 09 OCT 87 09 OCT 87 09 OCT 87 09 OCT 87
PARAMETER	10-201-1	10-201-2	10-201-3	10-201-4	10-201-5
Halocarbons (EPA 601)					
Date Extracted	10/19/87	10/19/87	10/19/87	10/19/87	10/19/87
Dilution Factor, Times 1	1	1	1	1	1
1,1,2,2-Tetrachloroethane, ug	/L <0.5		<0.5		<0.5
1,1,2-Trichloroethane, ug/L	<0.5	<0.5	<0.5		<0.5
l,l-Dichloroethane, ug/L	<0.5	6.9	<0.5		<0.5
l,l-Dichloroethene, ug/L	<0.5	15	<0.5		<0.5
1,2-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	
1,2-Dichloroethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene, ug/		2.2	<0.5	5.9	<0.5
1,2-Dichloropropane, ug/L	<0.5	<0.5	<0.5		<0.5
1,3-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
2-Chloroethylvinylether, ug/L		43	<0.5	<0.5	<0.5
Bromodichloromethane, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane, ug/L	<0.5	<0.5	<0.5	<0.5	
Bromoform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5
Chlorobenzene, ug/L	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5
Carbon Tetrachloride, ug/L	<0.5	87	<0.5 <0.5		<0.5
Chloroethane, ug/L	<0.5	<0.5		<0.5 <0.5	0.65
Chloroform, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane, ug/L	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5
Dibromochloromethane, ug/L	<0.5	<0.5	(0.5	70.5	70.5



ANALYTICAL REPORT

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Project: 50-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, G	ROUND WAT	ER SAMPLES		DA	TE SAMPLED
10-201-1 10-201-2 10-201-3 10-201-4 10-201-5	W-03-(1635-1652) 50- W-6B-(1653-1670) 50- W-07-(1673-1691) 50-	1014-3 1014-3 1014-3 1014-3 1014-3				09 OCT 87 09 OCT 87 09 OCT 87 09 OCT 87 09 OCT 87
PARAMETER		10-201-1	10-201-2	10-201-3	10-201-4	10-201-5
Methylene Tetrachlo 1,1,1-Tri Trichloro Trichloro Vinyl chl cis-1,3-D	ifluoromethane, ug/L chloride, ug/L roethene, ug/L chloroethane, ug/L ethylene, ug/L fluoromethane, ug/L oride, ug/L ichloropropene, ug/L -Dichloropropene, ug/L	<pre><0.5 1.7 1.1 <0.5 2.4 <0.5 <0.5 <0.5 <0.5 <0.5</pre>	<0.5 9.6 0.77 <0.5 150 <0.5 <0.5 <0.5 <0.5	<pre><0.5 1.2 1.1 0.64 33 <0.5 <0.5 <0.5 <0.5 <0.5</pre>	<0.5 1.1 <0.5 <0.5 36 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 17 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5



REAGENT BLANK

-	TEST: VOLATILE HALOCARBONS/AROMATICS (EPA CLIENT: J.H. KLEINFELDER-SAN DIEGO PROJECT #: 50-1014-3 PROJECT NAME: (NONE) CLIENT I.D.: REAGENT BLANK	ATI I.D. : 710124
	COMPOUNDS	RESULTS
	BENZENE BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHANE 2-CHLOROETHYLVINYLETHER CHLOROMETHANE DIBROMOCHLOROMETHANE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,4-DICHLOROBENZENE DICHLORODIFLUOROMETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHENE TRANS-1,2-DICHLOROETHENE 1,2-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE ETHYLBENZENE METHYLENE CHLORIDE 1,1,2,2-TETRACHLOROETHANE 1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TTRICHLOROETHENE TRICHLOROETHENE TRICHLOROETHENE TRICHLOROETHENE TRICHLOROETHENE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE META XYLENE ORTHO & PARA XYLENE	<0.5 <0.2 <0.2 <0.2 <0.2 <0.5 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.5 <0.5 <0.5 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2
	SURROGATE PERCENT RECOVER	IES

-	BROMOCHLOROMETHANE (%)	100
	TRIFLUOROTOLUENE (%)	102



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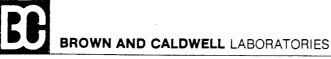
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Project: 50-1014-3

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LOG NO SA	MPLE DESCRIPTIO	N, GROUND WAT	ER SAMPLES		DA	TE SAMPLEI
10-201-2 W-0 10-201-3 W-0 10-201-4 W-0	01-(1617-1634) 03-(1635-1652) 6B-(1653-1670) 07-(1673-1691) 00-(1615-1616)	50-1014-3 50-1014-3 50-1014-3				09 OCT 87 09 OCT 87 09 OCT 87 09 OCT 87
PARAMETER		10-201-1	10-201-2	10-201-3	10-201-4	10-201-5
Vol.Aromatics Date Extracted Dilution Factor Chlorobenzene 1,2-Dichlorobe 1,3-Dichlorobe 1,4-Dichlorobe Benzene, ug/L Ethylbenzene, Toluene, ug/L	d or, Times 1 , ug/L enzene, ug/L enzene, ug/L enzene, ug/L ug/L	10/18/87 1 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		<0.5 <0.5	<0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5
Additional Con Total Xylene	mpounds: Isomers, ug/L	<0.5	<0.5	<0.5	<0.5	<0.5

REPORT OF ANALYTICAL RESULTS



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Project: 50-1014-3

	F	EPORT OF ANALYTICAL	RESULTS		Page 6
LOG NO	SAMPLE DESCRIPTION	N, GROUND WATER SAMP	LES	DA	TE SAMPLED
10-201-6 10-201-7	W-00-(1671-1672) W-00-(1692-1693)	50-1014-3			09 OCT 87 09 OCT 87
PARAMETER			10-201-6	10-201-7	
	s (EPA 601)				
Date Extr	acted		10/19/87	10/19/87	
	Factor, Times 1		1	1	
	Cetrachloroethane, u	g/L	<0.5		
	chloroethane, ug/L		<0.5	<0.5	
•	oroethane, ug/L		<0.5	<0.5	
•	oroethene, ug/L		<0.5	<0.5	
	orobenzene, ug/L		<0.5	<0.5	
	oroethane, ug/L		<0.5		
•	-Dichloroethene, ug	·/L	<0.5		
	oropropane, ug/L		<0.5	<0.5	
	orobenzene, ug/L		<0.5	<0.5	
	orobenzene, ug/L		<0.5	<0.5	
	thylvinylether, ug/	L	<0.5	<0.5	
	loromethane, ug/L		<0.5	<0.5	
	ane, ug/L		<0.5	<0.5	
Bromoform	. •		<0.5	<0.5	
	zene, ug/L		<0.5	<0.5	
	trachloride, ug/L		<0.5	<0.5	
	ane, ug/L		<0.5	<0.5	
Chlorofor			0.73	<0.5	
	hane, ug/L		<0.5	<0.5	
	loromethane, ug/L		<0.5	<0.5	
	ifluoromethane, ug/	L	, <0.5	<0.5	
Methylene	chloride, ug/L		20	95	
Tetrachlo	roethene, ug/L		<0.5	0.74	



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REPORT OF ANALYTICAL RESULTS

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LOG NO	SAMPLE DESCRIPTION, GROUND WATER SA	MPLES	DA	ATE SAMPLED
	W-00-(1671-1672) 50-1014-3 W-00-(1692-1693) 50-1014-3			09 OCT 87 09 OCT 87
PARAMETER		10-201-6	10-201-7	
1,1,1-Tric	hloroethane, ug/L	<0.5	<0.5	
	thylene, ug/L	<0.5	87	
	luoromethane, ug/L	<0.5	<0.5	
Vinyl chlo	· · · · · · · · · · · · · · · · · · ·	<0.5	<0.5	
	chloropropene, ug/L	<0.5	<0.5	
	Dichloropropene, ug/L	<0.5	<0.5	
Vol.Aromati	cs (EPA-602)			
Date Extra	cted	10/18/87	10/18/87	
Dilution Fa	actor, Times l	1	1	
Chlorobenz	ene, ug/L	<0.5	<0.5	
1,2-Dichlo	robenzene, ug/L	<0.5	<0.5	
1,3-Dichlo	robenzene, ug/L	<0.5	<0.5	
1,4-Dichlo	robenzene, ug/L	<0.5	<0.5	
Benzene, u	g/L	<0.5		
Ethylbenze	ne, ug/L	<0.5		
Toluene, u	g/L	<0.5	220	
Additional	Compounds:			
	ene Isomers, ug/L	<0.5	<0.5	

Report amended 12/11/87 to correct data entry

error on -7. -- J. Jones

Edward Wilson, Laboratory Director



ATI I.D. 710124

November 5, 1987

J. H. Kleinfelder & Associates 9771 Clairemont Mesa Blvd., Suite G San Diego, California 92124

Project No.: 50-1014-3

Attention: Mike Chapin

On October 15, 1987, Analytical Technologies, Inc. received five water samples for analyses. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. Please see the attached sheet for the sample cross reference.

The results, sample cross reference, and the quality control data are enclosed.

Patricia A. Schroder

GC Supervisor

PS: mag

Richard M. Amano Laboratory Manager



ATI I.D. 710124

ANALYTICAL SCHEDULE

CLIENT: J.H. KLEINFELDER-SAN DIEGO PROJECT NO.: 50-1014-3

PROJECT NAME: (NONE)

TECHNIQUE REFERENCE/METHOD ANALYSIS

PURGEABLE HALOCARBONS GC/HALL EPA 601

PURGEABLE AROMATICS GC/PID EPA 602



CLIENT : J.H. KLEINFELDER-SAN DIEGO

DATE RECEIVED : 10/15/87

PROJECT # : 50-1014-3

PROJECT NAME: (NONE) REPORT DATE: 11/05/87

ATI I.D.: 710124

-	ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
-	03 04	W-4A-1768,1769 W-11-1790,1791 W-10-1810,1811 W-04-1830,1831 W-00-1850,1851	WATER WATER WATER WATER WATER	10/15/87 10/15/87 10/15/87 10/15/87 10/15/87

---- TOTALS ----

MATRIX # SAMPLES
WATER 5

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



TRIFLUOROTOLUENE (%)

GAS CHROMATOGRAPHY - RESULTS

ATI I.D.: 71012401

TEST: VOLATILE HALOCARBONS/AROMATICS (EPA 601/602)

	CLIENT : J.H. KLEINFELDER-SAN DIEGO PROJECT # : 50-1014-3 PROJECT NAME : (NONE) CLIENT I.D. : W-4A-1768,1769 SAMPLE MATRIX : WATER	DATE SAMPLED : 10/15/87 DATE RECEIVED : 10/15/87 DATE EXTRACTED : N/A DATE ANALYZED : 10/23/87 UNITS : UG/L DILUTION FACTOR : 1
محن	COMPOUNDS	RESULTS
	BENZENE BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHYLVINYLETHER CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE DICHLORODIFLUOROMETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHENE TRANS-1,2-DICHLOROETHENE 1,2-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE ETHYLBENZENE METHYLENE CHLORIDE 1,1,2,2-TETRACHLOROETHANE TETRACHLOROETHENE 1,1,1-TRICHLOROETHANE 1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TICHLOROETHENE TRICHLOROFTHORE TRICHLOROETHENE	<pre><0.5 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2</pre>
	VINYL CHLORIDE META XYLENE	<0.2 <0.5
	ORTHO & PARA XYLENE	<0.5
	SURROGATE PERCENT RECOVERIES	
	BROMOCHLOROMETHANE (%)	73



ATI I.D.: 71012405

TEST: VOLATILE HALOCARBONS/AROMATICS (EPA 601/602)

CLIENT : KLEINFELDER-SAN DIEGO DATE SAMPLED : 10/15/87
PROJECT # : 50-1014-3 DATE RECEIVED : 10/15/87
PROJECT NAME : (NONE) DATE EXTRACTED : N/A
CLIENT I.D. : W-00-1850,1851 DATE ANALYZED : 10/29/87
SAMPLE MATRIX : WATER UNITS : UG/L
DILUTION FACTOR : 1

COMPOUNDS RESULTS 0.58 BROMODICHLOROMETHANE <0.2 <0.2 BROMOFORM <0.2 BROMOMETHANE <0.2 CARBON TETRACHLORIDE CHLOROB ENZ EN E <0.5 <0.2 CHLOROETHANE <0.2 2-CHLOROETHYLVINYLETHER <0.2 CHLOROFORM <0.2 CHLOROMETHANE DIBROMOCHLOROMETHANE <0.2 1,2-DICHLOROBENZENE <0.5 <0.5 1,3-DICHLOROBENZENE <0.5 1,4-DICHLOROBENZENE <0.2 DICHLORODIFLUOROMETHANE <0.2 1,1-DICHLOROETHANE . <0.2 1,2-DICHLOROETHANE <0.2 1,1-DICHLOROETHENE <0.2 TRANS-1, 2-DICHLOROETHENE <0.2 1.2-DICHLOROPROPANE CIS-1,3-DICHLOROPROPENE <0.2 <0.2 TRANS-1,3-DICHLOROPROPENE 110 ETHYLB ENZ EN E METHYLENE CHLORIDE 35 <0.2 1,1,2,2-TETRACHLOROETHANE TETRACHLOROETHENE <0.2 140 TOLUENE 1,1,1-TRICHLOROETHANE <0.2 <0.2 1,1,2-TRICHLOROETHANE 44 TRICHLOROETHENE <2.0 TRICHLOROFLUOROMETHANE <0.2 VINYL CHLORIDE <0.5 META XYLENE ORTHO & PARA XYLENE <0.5 SURROGATE PERCENT RECOVERIES BROMOCHLOROMETHANE (%) 90 108 TRIFLUOROTOLUENE (%)



TRIFLUOROTOLUENE (%)

GAS CHROMATOGRAPHY - RESULTS

ATI I.D.: 71012404

TEST: VOLATILE HALOCARBONS/AROMATICS (EPA 6	,
CLIENT : J.H. KLEINFELDER-SAN DIEGO PROJECT # : 50-1014-3 PROJECT NAME : (NONE) CLIENT I.D. : W-04-1830,1831 SAMPLE MATRIX : WATER	DILUTION FACTOR: 100
COMPOUNDS	RESULTS
BENZENE	<50
BROMODICHLOROMETHANE	<20
BROMOFORM	<20
BROMOMETHANE	<20
CARBON TETRACHLORIDE	<20
CHLOROBENZENE	<50
CHLOROETHANE	<20
2-CHLOROETHYLVINYLETHER	<20
CHLOROFORM	<20
CHLOROMETHANE	<20
DIBROMOCHLOROMETHANE	<20
1,2-DICHLOROBENZENE	<50
1,3-DICHLOROBENZENE	<50
1,4-DICHLOROBENZENE	<50
DICHLORODIFLUOROMETHANE	<20
1,1-DICHLOROETHANE	150
1,2-DICHLOROETHANE	84
1,1-DICHLOROETHENE	80
TRANS-1,2-DICHLOROETHENE	33
1,2-DICHLOROPROPANE	<20
CIS-1,3-DICHLOROPROPENE	<20
TRANS-1,3-DICHLOROPROPENE	<20
ETHYLBENZENE	440
	<200
METHYLENE CHLORIDE 1,1,2,2-TETRACHLOROETHANE	<200 <20
• • •	<20
TETRACHLOROETHENE	970
TOLUENE	<20
1,1,1-TRICHLOROETHANE	<20 <20
1,1,2-TRICHLOROETHANE	350
TRICHLOROETHENE TRICHLOROFLUOROMETHANE	<200
	<20
VINYL CHLORIDE	360
META XYLENE	1100
ORTHO & PARA XYLENE	TTMM
SURROGATE PERCENT RECOVERIES	
BROMOCHLOROMETHANE (%)	84
TRI HODOTOLIENE (4)	86

86



ATI I.D.: 71012403

TEST: VOLATILE HALOCARBONS/AROMATICS (EPA 601/602)

	TEST: VOLATILE HALOCARBONS/AROMATICS (EPA 601)	/602)
	CLIENT : J.H. KLEINFELDER-SAN DIEGO PROJECT # : 50-1014-3 PROJECT NAME : (NONE) CLIENT I.D. : W-10-1810,1811 SAMPLE MATRIX : WATER	DATE SAMPLED : 10/15/87 DATE RECEIVED : 10/15/87 DATE EXTRACTED : N/A DATE ANALYZED : 10/21/87 UNITS : UG/L DILUTION FACTOR : 10
	COMPOUNDS	RESULTS
	BENZENE	<5.0
_	BROMODICHLOROMETHANE	<2.0
	BROMOFORM	<2.0
	BROMOMETHANE	<2.0
****	CARBON TETRACHLORIDE	<2.0
	CHLOROBENZENE	<5.0
	CHLOROETHANE	<2.0
-	2-CHLOROETHYLVINYLETHER	<2.0
_	CHLOROFORM	<2.0
	CHLOROMETHANE	<2.0
	DIBROMOCHLOROMETHANE	<2.0
-	1,2-DICHLOROBENZENE	<5.0
	1,3-DICHLOROBENZENE	<5.0
	1,4-DICHLOROBENZENE	<5.0
	DICHLORODIFLUOROMETHANE	1 - 1 -
	1,1-DICHLOROETHANE	19
	1,2-DICHLOROETHANE	94
	1,1-DICHLOROETHENE	21
_	TRANS-1,2-DICHLOROETHENE	2.4
	1,2-DICHLOROPROPANE	<2.0
	CIS-1,3-DICHLOROPROPENE	<2.0
	TRANS-1,3-DICHLOROPROPENE ETHYLBENZENE	<2.0 300
		<20
	METHYLENE CHLORIDE 1,1,2,2-TETRACHLOROETHANE	<2.0
***	TETRACHLOROETHENE	<2.0
	TOLUENE	<5.Ø
	1,1,1-TRICHLOROETHANE	3.9
_	1,1,2-TRICHLOROETHANE	<2.0
_	TRICHLOROETHENE	110
	TRICHLOROFLUOROMETHANE	<20
	VINYL CHLORIDE	<2.0
~	META XYLENE	<5.0
	ORTHO & PARA XYLENE	<5.0
	SURROGATE PERCENT RECOVERIES	
	BROMOCHLOROMETHANE (%)	89
	· ,	93
300	TRIFLUOROTOLUENE (%)	33

Analytical **Technologies**, Inc. Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 71012402

TEST: VOLATILE HALOCARBONS/AROMATICS (EPA 601/602)

CLIENT : KLEINFELDER-SAN DIEGO PROJECT # : 50-1014-3 DATE SAMPLED : 10/15/87 DATE RECEIVED : 10/15/87 PROJECT NAME : (NONE) DATE EXTRACTED : N/A CLIENT I.D. : W-11-1790,1791 SAMPLE MATRIX : WATER DATE ANALYZED : 10/21/87 UNITS : UG/L

DILUTION FACTOR: RESULTS BENZENE <5.0 BROMODICHLOROMETHANE <2.0 <2.0 BROMOFORM BROMOMETHANE <2.0 CARBON TETRACHLORIDE <2.0 CHLOROB ENZ ENE <5.0 <2.0 CHLOROETHANE 2-CHLOROETHYLVINYLETHER <2.0 CHLOROFORM <2.0 CHLOROMETHANE <2.0

DIBROMOCHLOROMETHANE <2.0 1,2-DICHLOROBENZENE <5.0 1,3-DICHLOROBENZENE <5.0 1,4-DICHLOROBENZENE <5.0 DICHLORODIFLUOROMETHANE <2.0 3.7 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 7.5 1,1-DICHLOROETHENE <2.0 TRANS-1, 2-DICHLOROETHENE <2.0 1.2-DICHLOROPROPANE <2.0 <2.0 CIS-1,3-DICHLOROPROPENE TRANS-1, 3-DICHLOROPROPENE <2.0 ETHYLB ENZ ENE 150 METHYLENE CHLORIDE <20.0

1,1,2,2-TETRACHLOROETHANE <2.0 TETRACHLOROETHENE <2.0 TOLUENE <5.0 <2.0 1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE <2.0 TRICHLOROETHENE 19 <20.0 TRICHLOROFLUOROMETHANE

VINYL CHLORIDE <2.0 <5.0 META XYLENE ORTHO & PARA XYLENE <5.0

 BROMOCHLOROMETHANE (%)	79
TRIFLUOROTOLUENE (%)	91



REAGENT BLANK

TEST :	VOLATILE	HALOCARBONS	/AROMATICS	(EPA 6	:01/602)
TEST:	VOLATILE	HALUCARBUNS	/ ARUMATICS	(LPA b	שס/בשנ

CLIENT : J.H. KLEINFELDER-SAN DIEGO DATE EXTRACTED : 10/21/87
PROJECT # : 50-1014-3 DATE ANALYZED : 10/21/87
PROJECT NAME : (NONE) UNITS : UG/L
CLIENT I.D. : REAGENT BLANK DILUTION FACTOR : N/A

COMPOUNDS	RESULTS
BENZENE	<0.5
BROMODICHLOROMETHANE	<0.2
BROMOFORM	<0.2
BROMOMETHANE	<0.2
CARBON TETRACHLORIDE	<0.2
CHLOROBENZENE	<0.5
CHLOROETHANE	<0.2
2-CHLOROETHYLVINYLETHER	<0.2
CHLOROFORM	<0.2
CHLOROMETHANE	<0.2
DIBROMOCHLOROMETHANE	<0.2
1,2-DICHLOROBENZENE	<0.5
1,3-DICHLOROBENZENE	<0.5 ·
1,4-DICHLOROBENZENE	<0.5
DICHLORODIFLUOROMETHANE	<0.2
1,1-DICHLOROETHANE	<0.2
1,2-DICHLOROETHANE	<0.2
1,1-DICHLOROETHENE	<0.2
TRANS-1,2-DICHLOROETHENE	<0.2
1,2-DICHLOROPROPANE	<0.2
CIS-1,3-DICHLOROPROPENE	<0.2
TRANS-1,3-DICHLOROPROPENE	<0.2
ETHYLBENZENE	<0.5
METHYLENE CHLORIDE	<2.0
1,1,2,2-TETRACHLOROETHANE	<0.2
TETRACHLOROETHENE	<0.2
TOLUENE	<0.5
1,1,1-TRICHLOROETHANE	<0.2
1,1,2-TRICHLOROETHANE	<0.2
TRICHLOROETHENE	<0.2
TRICHLOROFLUOROMETHANE	<2.0
VINYL CHLORIDE	<0.2
META XYLENE	<0.5
ORTHO & PARA XYLENE	<0.5
SURROGATE PERCENT RECO	OVERIES

	BROMOCHLOROMETHANE (%)	81
_	TRIFLUOROTOLUENE (%)	107



REAGENT BLANK

فنست	TEST :	VOLATILE	HALOCARBONS/AROMATICS (EPA 601/602)		
_				ATI I.D.	•	710124
	CLIENT	:	J.H. KLEINFELDER-SAN DIEGO	DATE EXTRACTED	:	10/23/87
	PROJECT		50-1014-3	DATE ANALYZED	:	10/23/87
	PROJECT	NAME :	(NONE)	UNITS	:	UG/L
	OF TONO	T 5	DELOCKIE DE LUIZ	DITTIMITAN DACMAD	_	NT / N

COMPOUNDS	RESULTS
COMPOUNDS	KEDOLID
BENZENE	<0.5
BROMODICHLOROMETHANE	<0.2
BROMOFORM	<0.2
BROMOMETHANE	<0.2
CARBON TETRACHLORIDE	<0.2
CHLOROBENZENE	<0.5
CHLOROETHANE	<0.2
2-CHLOROETHYLVINYLETHER	<0.2
CHLOROFORM	<0.2
CHLOROMETHANE	<0.2
DIBROMOCHLOROMETHANE	<0.2
1,2-DICHLOROBENZENE	<0.5
1,3-DICHLOROBENZENE	<0.5
1,4-DICHLOROBENZENE	<0.5
DICHLORODIFLUOROMETHANE	<0.2
1,1-DICHLOROETHANE	<0.2
1,2-DICHLOROETHANE	<0.2
1,1-DICHLOROETHENE	<0.2
TRANS-1,2-DICHLOROETHENE	<0.2
1,2-DICHLOROPROPANE	<0.2
CIS-1,3-DICHLOROPROPENE	<0.2
TRANS-1,3-DICHLOROPROPENE	<0.2
ETHYLBENZENE	<0.5
METHYLENE CHLORIDE	<2.0
1,1,2,2-TETRACHLOROETHANE	<0.2
TETRACHLOROETHENE	<0.2
TOLUENE	<0.5
1,1,1-TRICHLOROETHANE	<0.2
1,1,2-TRICHLOROETHANE	<0.2
TRICHLOROETHENE	<0.2
TRICHLOROFLUOROMETHANE	<2.0
VINYL CHLORIDE	<0.2
META XYLENE	<0.5 0.80
ORTHO & PARA XYLENE	

BROMOCHLOROMETHANE (%)	91
 TRIFLUOROTOLUENE (%)	106



REAGENT BLANK

-	TEST	•	VOLATILE.	HALOCARBONS	/AROMATICS	(EPA	601/602)
	1 5 5 1	-	ACHATTE		\ MKOLMITCO	\ LFA	001/004/

CLIENT : J.H. KLEINFELDER-SAN DIEGO DATE EXTRACTED : 10/24/87
PROJECT # : 50-1014-3 DATE ANALYZED : 10/24/87
PROJECT NAME : (NONE) UNITS : UG/L
CLIENT I.D. : REAGENT BLANK DILUTION FACTOR : N/A

COMPOUNDS	RESULTS
BENZENE	<0.5
BROMODICHLOROMETHANE	<0.2
BROMOFORM	<0.2
BROMOMETHANE	<0.2
CARBON TETRACHLORIDE	<0.2
CHLOROBENZENE	<0.5
CHLOROETHANE	<0.2
2-CHLOROETHYLVINYLETHER	<0.2
CHLOROFORM	<0.2
CHLOROMETHANE	<0.2
DIBROMOCHLOROMETHANE	<0.2
1,2-DICHLOROBENZENE	<0.5
1,3-DICHLOROBENZENE	<0.5
1,4-DICHLOROBENZENE	<0.5
DICHLORODIFLUOROMETHANE	<∅.2
1,1-DICHLOROETHANE	<0.2
1,2-DICHLOROETHANE	<0.2
1,1-DICHLOROETHENE	<0.2
TRANS-1,2-DICHLOROETHENE	<0.2
1,2-DICHLOROPROPANE	<0.2
CIS-1,3-DICHLOROPROPENE	⟨∅.2
TRANS-1,3-DICHLOROPROPENE	<0.2
ETHYLBENZENE	<0.5
METHYLENE CHLORIDE	<2.0
1,1,2,2-TETRACHLOROETHANE	<0.2
TETRACHLOROETHENE	<0.2
TOLUENE	<0.5
1,1,1-TRICHLOROETHANE	<0.2
1,1,2-TRICHLOROETHANE	<0.2
TRICHLOROETHENE	<0.2
TRICHLOROFLUOROMETHANE	<2.0
VINYL CHLORIDE	<0.2
META XYLENE	<0.5
ORTHO & PARA XYLENE	<0.5
OKINO & PAKA AILENE	\v . J

BROMOCHLOROMETHANE	(%)	76
TRIFLUOROTOLUENE (%)	96



REAGENT BLANK

-	TEST: VOLATILE HALOCARBONS/AROMATICS (EPA CLIENT : J.H. KLEINFELDER-SAN DIEGO PROJECT # : 50-1014-3 PROJECT NAME : (NONE) CLIENT I.D. : REAGENT BLANK	ATI I.D. : 710124
	COMPOUNDS	RESULTS
	BENZENE BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHANE 2-CHLOROETHYLVINYLETHER CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE DICHLORODIFLUOROMETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHENE TRANS-1,2-DICHLOROETHENE TRANS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE ETHYLBENZENE METHYLENE CHLORIDE 1,1,2,2-TETRACHLOROETHANE TETRACHLOROETHENE 1,1,1-TRICHLOROETHANE 1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLOROETHENE	<pre></pre>
	TRICHLOROFLUOROMETHANE VINYL CHLORIDE META XYLENE ORTHO & PARA XYLENE	<2.0 <0.2 <0.5 <0.5
-	SURROGATE PERCENT RECOVER	TES

BROMOCHLOROMETHANE (%)	100
TRIFLUOROTOLUENE (%)	102



SOUTHERN CALIFORNIA DIVISION 7440 Lincoln Way ● Garden Grove, CA 92641 (714) 898-6370 ● FAX: (714) 891-5917 ● (800) LAB-1CRL

J.H. KLEINFELDER & ASSOCIATES

17100 Pioneer Blvd. Ste. 350

Artesia, CA 90701

ATTN: Ken Durand

ANALYSIS NO.: 728121-001/002

ANALYSES: EPA Method 601,602

DATE SAMPLED: 10/08/87 DATE SAMPLE REC'D: 10/08/87

PROJECT: Organic Spikes in H₂O

The following tests were performed on the samples received:

TEST	METHOD	REFERENCE	COMMENTS
Halogenated Volatile Organics (liquid)	EPA 601	SW846,1986	GC/Hall detector
Aromatic Volatile Organics (Liquid)	EPA 602	SW846,1986	GC/Hall detector



SOUTHERN CALIFORNIA DIVISION

7440 Lincoln Way ● Garden Grove, CA 92641 (714) 898-6370 ● FAX: (714) 891-5917 ● (800) LAB-1CRL RECEIVED OCT 27 1987 An/d

October 19, 1987

J.H. KLEINFELDER & ASSOCIATES 17100 Pioneer Blvd. Ste. 350 Artesia, CA 90701

ATTN: Ken Durand

ANALYSIS NO.: 728121-001/002 ANALYSES: EPA Method 601,602

DATE SAMPLED: 10/08/87

DATE SAMPLE REC'D: 10/08/87 PROJECT: Organic Spikes in H₂O

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: 728121-001/002 shown above.

Two liquid samples were received by CRL in a chilled state, intact, and with a chain-of-custody attached.

REVIEWED AND APPROVED

DATE



SOUTHERN CALIFORNIA DIVISION
7440 Lincoln Way ● Garden Grove, CA 92641
(714) 898-6370 ● FAX: (714) 891-5917 ● (800) LAB-1CRL

LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES

17100 Pioneer Blvd. Ste. 350

Artesia, CA 90701 ATTN: Ken Durand

SAMPLE ID: SAMPLE #5

ANALYSIS NO.: 728121-001 ANALYSES: EPA Method 601

DATE SAMPLED: 10/08/87

DATE SAMPLE REC'D: 10/08/87

DATE ANALYZED: 10/13/87

SAMPLE TYPE: Liquid

PROJECT: Organic Spikes in H₂O

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

COMPOUND	RESULT	BLANK	DETECTION LIMITS
Chloromethane	ND	ND	1.
Bromomethane	ND	ND.	1.
Vinyl Chloride	ND	ND	1.
Chloroethane	ND	ND	1.
Methylene Chloride	55.	2.	1.
1,1-Dichloroethene	ND	ND	1.
1,1-Dichloroethane	ND	ND	1.
Trans-1,2-Dichloroethene	ND	ND	1.
Chloroform	ND	з.	1.
1,2-Dichloroethane	ND	ND	1.
1,1,1-Trichloroethane	ND	ND	1.
Carbon Tetrachloride	· ND	ND	1.
Trichlorofluoromethane	ND	ND	1.
1,2-Dichloropropane	ND	ND	1.
Trans-1,3-Dichloropene	ND	ND	1.
Trichloroethene	73.	ND	1.
Dibromochloromethane	ND	ND	1.
1,1,2-Trichloroethane	ND	ND	1.
cis-1,3-Dichloropropene	ND	ND	1.
2-Chloroethylvinylether	ND	ND	1.
Bromoform	ND	ND	1.
Tetrachloroethene	ND	ND	1.
1,1,2,2-Tetrachloroethane	ND	ND	1.
Chlorobenzene	ND	ND	1.
Bromodichloromethane	ND	ND	1.
1,2-Dichlorobenzene	ND	ND	1.
1,3-Dichlorobenzene	ND	ND	1.
1,4-Dichlorobenzene	ND	ND	1.

ND denotes compound was not detected at the detection limit indicated.

NOTE: All result values are blank subtracted.



SOUTHERN CALIFORNIA DIVISION
7440 Lincoln Way ● Garden Grove, CA 92641
(714) 898-6370 ● FAX: (714) 891-5917 ● (800) LAB-1CRL

LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES

17100 Pioneer Blvd. Ste. 350

Artesia, CA 90701

ATTN: Ken Durand

SAMPLE ID: SAMPLE #6

ANALYSIS NO.: 728121-002 ANALYSES: EPA Method 601 DATE SAMPLED: 10/08/87

DATE SAMPLE REC'D: 10/08/87

DATE ANALYZED: 10/13/87

SAMPLE TYPE: Liquid

PROJECT: Organic Spikes in H₂0

EPA METHOD 601 HALOGENATED VOLATILE ORGANICS

UNITS: ug/L

	COMPOUND	RESULT	BLANK	DETECTION LIMITS
	Chloromethane	ND	ND	1.
	Bromomethane	ND	ND	1.
	Vinyl Chloride	ND	ND	1.
_	Chloroethane	ND	ND	1.
	Methylene Chloride	22.	2.	1.
	1,1-Dichloroethene	ND	ND	1.
	1,1-Dichloroethane	ND	ND	1.
	Trans-1,2-Dichloroethene	ND	ND	1.
	Chloroform	ND	3.	1.
	1,2-Dichloroethane	ND	ND	1.
	1,1,1-Trichloroethane	ND	ND	1.
	Carbon Tetrachloride	ND	ND	1.
	Trichlorofluoromethane	ND	ND	1.
	1,2-Dichloropropane	ND	ND	1.
	Trans-1,3-Dichloropene	ND	ND	1.
	Trichloroethene	72.	ND	1.
	Dibromochloromethane	ND	ND	1.
	1,1,2-Trichloroethane	ND	ND	1.
	cis-1,3-Dichloropropene	ND	ND	1.
۰	2-Chloroethylvinylether	ND	\mathbf{N} D	1.
_	Bromoform	ND	ND	1.
	Tetrachloroethene	ND	ND	1.
	1,1,2,2-Tetrachloroethane	ND	ND	1.
	Chlorobenzene	ND	ND	1.
	Bromodichloromethane	ND	ND	1.
	1,2-Dichlorobenzene	ND	ND	1.
وز	1,3-Dichlorobenzene	ND	ND	1.
	1,4-Dichlorobenzene	ND	ND	1.

ND denotes compound was not detected at the detection limit indicated.

NOTE: All result values are blank subtracted.



SOUTHERN CALIFORNIA DIVISION
7440 Lincoln Way ● Garden Grove, CA 92641
(714) 898-6370 ● FAX: (714) 891-5917 ● (800) LAB-1CRL

LABORATORY REPORT

J.H. KLEINFELDER & ASSOCIATES

17100 Pioneer Blvd. Ste. 350

Artesia, CA 90701

ATTN: Ken Durand

SAMPLE ID: SAMPLE #6

ANALYSIS NO.: 728121-002 ANALYSES: EPA Method 602 DATE SAMPLED: 10/08/87

DATE SAMPLE REC'D: 10/08/87

DATE ANALYZED: 10/13/87

SAMPLE TYPE: Liquid

PROJECT: Organic Spikes in H₂O

EPA METHOD 602 AROMATIC VOLATILE ORGANICS

UNITS: ug/L

COMPOUND	RESULTS	BLANK	DETECTION LIMIT
Benzene	ND	ND	0.7
Chlorobenzene	See 8010 results		
1,4-Dichlorobenzene	See 8010 results		
1,3-Dichlorobenzene	See 8010 results		
1,2-Dichlorobenzene	See 8010 results		
Ethyl Benzene	135.	ND	1.
Toluene	190.	ND	1.
Xylenes	ND	ND	1.

ND denotes compound was not detected at the detection limit indicated.

NOTE: All result values are blank subtracted.



SOUTHERN CALIFORNIA DIVISION

7440 Lincoln Way ● Garden Grove, CA 92641 (714) 898-6370 ● FAX: (714) 891-5917 ● (800) LAB-1CRL

QA/QC SUMMARY

J.H. KLEINFELDER & ASSOCIATES 17100 Pioneer Blvd. Ste. 350

Artesia, CA 90701 ATTN: Ken Durand ANALYSIS NO.: 728121-001/002 ANALYSES: EPA Method 601,602

DATE SAMPLED: 10/08/87

DATE SAMPLE REC'D: 10/08/87 PROJECT: Organic Spikes in H₂0

ORGANIC ANALYSES QA/QC SUMMARY

Date	Parameter(Method)	Average Recovery (%)	Recovery Limits (%)	Duplicate RPD (%)	RPD Limits (%)
07/06/87	TOLUENE (EPA 8020/6	602) 105	60-120	8	40
07/06/87	XYLENE (EPA 8020/6	502) 97	60-120	2	40
07/06/87	1,1-DCE(EPA 8010/6	601) 96	60-120	5	40
07/06/87	CHLOROBENZENE	99	60-120	2	40
	(EPA 8010/6	601)			

APPENDIX C

SAMPLERS: (Signature)			SHIPPING INFOR	7-10-20 RATIONELVED	
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*Analysis lab	poratory should comple		tion upon receipt", section below, sign. Victoria Street, Suite G, Compton, C	n and return original (white)
*Analysis lab copy to J. H Sample	poratory should comple H. KLEINFELDER & ASS Site	SOCIATES, 901 W	tion upon receipt", section below, sign V. Victoria Street, Suite G, Compton, C Analysis	n and return original (white) A 90220. Sample Condition
*Analysis lab copy to J. H Sample Number	ooratory should comple H. KLEINFELDER & ASS Site Identification	SOCIATES, 901 W	tion upon receipt", section below, sign . Victoria Street, Suite G, Compton, C Analysis Requested	n and return original (white) A 90220.
*Analysis lab copy to J. H Sample Number	poratory should comple H. KLEINFELDER & ASS Site	SOCIATES, 901 W	tion upon receipt", section below, sign V. Victoria Street, Suite G, Compton, C Analysis Requested	n and return original (white) A 90220. Sample Condition
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CHAIN OF CUSTODY RECORD SHIPPING INFORMATION Shipper Klein folds Address Address Address Date Shipped 1953 Shipment Service 1966 Airbill No. Cooler No.

Phone No. Date/Time Relinquished by: (Signature) Received by: (Signature, Relinquished by: (Signature Received by: (Signature) Date/Time 10-9-871806 Relinquished by: (Signature) Date/Time Received by: (Signature) Relinquished by: (Signature) Date/Time Receive for laboratory by*: (Signature) *Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to J. H. KLEINFELDER & ASSOCIATES, 901 W. Victoria Street, Suite G, Compton, CA 90220. Site Date **Analysis** Sample Condition Sample Identification Requested Number Sampled Upon Receipt W-68-1657 1658 100 1664

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

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(2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis

(3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4)		
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1-10-201 CHAIN OF CUSTODY RECORD SHIPPING INFORMAT SAMPLERS: (Signature) Shipper Kloinfelde SHIP TO: Address ______Addresiz Exercis & Coldwell Date Shipped ______ Airbill No. _ ATTENTION: _____ Cooler No. ___ Phone No. Received by: (Signature) Date/Time Relinquished by: (Signature) Mark Ekl Relinquished by: (Signature) eived by: (Signature Date/Time 10-9-87 1806 Relinquished by: (Signature) Received by: (Signature) Date/Time Date/Time Relinquished by: (Signature) Receive for laboratory by*: (Signature) *Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to J. H. KLEINFELDER & ASSOCIATES, 901 W. Victoria Street, Suite G, Compton, CA 90220. Analysis Sample Condition Site Date Sample Upon Receipt Number Identification Sampled Requested 16-07 1686 16 F 14.838 1689 EPA 6018602 LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following: summary of analytical methodology and QA work (blanks, spikes, duplicates) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

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LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

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P87-10-341 CHAIN OF CUSTODY RECORD SHIPPING INFORMATION SAMPLERS: (Signature) Mark Ekhl Phone: Shipper Rainfeldu SHIP TO: Address _____ Date Shipped 15/15/57 Shipment Service Airbill No. Cooler No. _____ ATTENTION: _____ Phone No. Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time Relinquished by: (Signature) Receive for laboratory by*: (Signature) *Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to J. H. KLEINFELDER & ASSOCIATES, 901 W. Victoria Street, Suite G, Compton, CA 90220. Site Date Analysis Sample Condition Sample Upon Receipt Number Identification Sampled Requested W-10-1810 EPA GOL 8602 1816 1818 1319 TOC 1873 LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following: summary of analytical methodology and QA work (blanks, spikes, duplicates) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated (4)_

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Analysis lat copy to J. H Sample Number V-10 /F2C /F2C /F27	Site Identification	Date	Receive for laboratory by: (Signature) ition upon receipt", section below, sign V. Victoria Street, Suite G, Compton, CA Analysis Requested	and return original (white) 90220. Sample Condition Upon Receipt
Analysis lat copy to J. H Sample Number V-10 /520	Site Identification	Date	Receive for laboratory by: (Signature) ition upon receipt", section below, sign V. Victoria Street, Suite G, Compton, CA Analysis Requested	and return original (white) 90220. Sample Condition Upon Receipt
Analysis lat copy to J. F Sample Number V-10 /620 /627 /627 /629	Site Identification	Date	Receive for laboratory by: (Signature) ition upon receipt", section below, sign V. Victoria Street, Suite G, Compton, CA Analysis Requested	and return original (white) 90220. Sample Condition Upon Receipt
Analysis lat copy to J. H Sample Number V-10 /620 1976 1977 1976	Site Identification	Date	Receive for laboratory by: (Signature) ition upon receipt", section below, sign V. Victoria Street, Suite G, Compton, CA Analysis Requested	and return original (white) 90220. Sample Condition Upon Receipt
Analysis lat copy to J. H Sample Number V-10 /F20 /F27 /F27 /F29 V-09-1530 -1831	Site Identification	Date	Receive for laboratory by: (Signature) ition upon receipt", section below, sign /. Victoria Street, Suite G, Compton, CA Analysis Requested	and return original (white) 90220. Sample Condition Upon Receipt
Analysis lat copy to J. F Sample Number V-10 /620 /627 /627 /627 /629 W-04-1830 /632	Site Identification	Date	Receive for laboratory by: (Signature) ition upon receipt", section below, sign V. Victoria Street, Suite G, Compton, CA Analysis Requested	and return original (white) 90220. Sample Condition Upon Receipt
Analysis lat copy to J. H Sample Number V-10 /F2C /E2C /E2C	Site Identification	Date	Receive for laboratory by: (Signature) ition upon receipt", section below, sign /. Victoria Street, Suite G, Compton, CA Analysis Requested	and return original (white) 90220. Sample Condition Upon Receipt
Analysis lat copy to J. H Sample Number V-10 /F20 /E27 /E27 /E29 W-09-1930 -/83/ /E32 /E33	Site Identification	Date	Receive for laboratory by: (Signature) Ition upon receipt", section below, sign V. Victoria Street, Suite G, Compton, CA Analysis Requested 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	and return original (white) 90220. Sample Condition Upon Receipt
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P87-10-341 CHAIN OF CUSTODY RECORD SHIPPING INFORMATION SAMPLERS: (Signature) Phone: SHIP TO: Gain & Clarell Address __ Date Shipped 19/15/67 Shipment Service ____ Airbill No. ATTENTION: ___ Cooler No. __ Phone No. Relinquished by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time Date/Time Relinquished by: (Signature) Receive for laboratory by*: (Signature) *Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to J. H. KLEINFELDER & ASSOCIATES, 901 W. Victoria Street, Suite G, Compton, CA 90220. Site Date Analysis Sample Condition Sample Number Identification Sampled Requested Upon Receipt W-04-1838 50-1014 19117 19.49

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

- (1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
- (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
- (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated

(4)		
(5)		

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CHAIN OF CUSTODY RECORD SHIPPING INFORMATION SAMPLERS: (Signature) Phone: SHIP TO: Address _____ Shipment Service ______ Airbill No. ___ ATTENTION: ___ Cooler No. _ Phone No. Relinquished by: (Signature) Received by: (Signature) Date/Time Lincoln Relinquished by: (Signature) Received by: (Signature) Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time Relinquished by: (Signature) Receive for laboratory by*: (Signature) *Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to J. H. KLEINFELDER & ASSOCIATES, 901 W. Victoria Street, Suite G, Compton, CA 90220. Site Date Analysis Sample Condition Sample Identification Number Sampled Requested Upon Receipt W-4/2-17:0 LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following: summary of analytical methodology and QA work (blanks, spikes, duplicates) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated